PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6:

G06F

(11) International Publication Number: WO 98/12616

(43) International Publication Date: 26 March 1998 (26.03.98)

(21) International Application Number: PCT/US97/17004

(22) International Filing Date: 22 September 1997 (22.09.97)

(30) Priority Data:

08/717,897

23 September 1996 (23.09.96) US

(71)(72) Applicant and Inventor: MCINTOSH, Lowrie [US/US]; Suite 270, 709 East Colorado Boulevard, Pasadena, CA 91101 (US).

(74) Agents: HYMAN, Eric, S. et al.; Blakely, Sokoloff, Taylor & Zafman, 7th floor, 12400 Wilshire Boulevard, Los Angeles, CA 90025-1026 (US).

(81) Designated States: AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

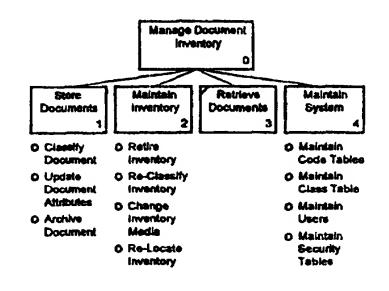
Published

Without international search report and to be republished upon receipt of that report.

(54) Title: DEFINING A UNIFORM SUBJECT CLASSIFICATION SYSTEM INCORPORATING DOCUMENT MANAGE-MENT/RECORDS RETENTION FUNCTIONS

(57) Abstract

An interlingual mechanism to achieve uniformity when classifying anything by subject. Using generic terminology in an especially oriented hierarchical structure, it directs the user to a single classification. The system captures acronyms, vernacular and industry-specific, as well as foreign terms, into a thesaurus that can be modified and appended as classification needs change. The system "learns" as synonyms are added to "family groups", capturing differences in individual perception. Searching for an entity is quickly successful by reversing the process. To ask the system for the location of any item, a descriptive term is entered that the individual believes best describes the object in question. If this entry results in a "hit", all information pertaining to the item is then available to query. If the entry term does not find a match in the generic structure, the system will search the synonym data base for a match. By arranging "generic terms" in a classified format, the system provides a single location for each record series and enables linking all relevant administrative document management functions and legal retention requirements. Selective and timely purging of documents is thus made possible, greatly facilitating the management of information for both current and prospective use.



FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
ΑU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav	TM	Turkmenistan
BF	Burkina Faso	GR	Greece		Republic of Macedonia	TR	Turkey
BG	Bulgaria	HU	Hungary	ML	Mali	TT	-
BJ	Benin	IE	Ireland	MN	Mongolia	UA	Trinidad and Tobago Ukraine
BR	Brazil	IL	Israel	MR	Mauritania	UG	
BY	Belarus	IS	Iceland	MW	Malawi		Uganda
CA	Canada	IT	Italy	MX	Mexico	US	United States of America
CF	Central African Republic	JP	Japan	NE	Niger	UZ	Uzbekistan
CG	Congo	KE	Kenya	NL	Netherlands	VN	Viet Nam
CH	Switzerland	KG	Kyrgyzstan	NO	Norway	YU	Yugoslavia
CI	Côte d'Ivoire	KP	Democratic People's	NZ	New Zealand	ZW	Zimbabwe
CM	Cameroon		Republic of Korea	PL	Poland		
CN	China	KR	Republic of Korea	PT			
CU	Cuba	KZ	Kazakstan	RO	Portugal Romania		
CZ	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
DE	Germany	LI	Liechtenstein	SD			
DK	Denmark	LK	Sri Lanka	SE	Sudan		
EE	Estonia	LR	Liberia		Sweden		
		DIC	Liveria	SG	Singapore		

DEFINING A UNIFORM SUBJECT CLASSIFICATION SYSTEM INCORPORATING DOCUMENT MANAGEMENT/RECORDS RETENTION FUNCTIONS

Background of the Invention

The exponential growth of information within an enterprise which is stored in individual document form has created a need for a reliable mechanism to purge individual documents when no longer legally or otherwise required, as well as locate them in an efficient manner.

In an age when the growth of information contained within documents has been exponential, a missing element is the ability to determine the proper life cycle for a document, and thus, make it possible for the document to be purged on a scheduled basis. However, to safely accomplish this purging process, a document management system typically requires that a significant amount of detail be stored with the document.

Since all retention scheduling is based on the subject matter of a document, it is essential that the system identify the subject matter of all documents in a consistent manner. Additionally, the terms used to identify the subject matter must conform to the terms used in legislation to identify documents as well as the terminology in current use within the enterprise.

The present invention provides a reliable mechanism to accomplish this task.

In systems having this capability, the "type" of document must also be determined. Different types of documents within the same subject matter area may have different retention requirements. The system must be able to determine the type of document at the outset. This "type" information specifies whether a particular document is "official" or "informational" and whether it is also "vital" or "sensitive." The type of document determines the level of protection afforded and has a direct impact on determining the life-cycle of the document. Additionally, document type impacts the decision as to the media selected to store it, whether electronic, paper or film.

Official documents are those documents identified in a retention schedule as having either administrative or legislative retention requirements. Properly, only official documents are subject to archiving.

Informational documents (largely copies) have their own destruction schedule based on need. They are not archived and their life cycle must not exceed official documents of the same subject. They are destroyed at the office level when their usefulness is over. Normally, informational documents have a substantially shorter life-cycle than official documents pertaining to the same subject.

2

Vital documents are those that are absolutely essential to the conduct of the enterprise and whose loss would be hugely expensive or would irrefutably damage continued operations.

Sensitive documents contain, for example:

- 1. Personnel information which provides confidential data.
- 2. Information that in the hands of a competitor could be used to embarrass or cast a bad image on the enterprise with its customers or the public.
- 3. Marketing, product development or corporate changes that could sabotage effectiveness.

Summary of the Invention

A system is disclosed for providing a true interlingual mechanism to achieve uniformity when classifying documents by subject to assist in the management, complying with retention requirements and long term storage of documents of an organization. In this connection, as used herein, the term document includes, without limitation, the hard copy and digitally stored version of the output of a computer program such as a wordprocessor, microfilm or microfiche, correspondence of all types and office folders which themselves may contain documents. Although not a document by this definition, objects such as furniture and the like may also be classified by creating a label (in this case, the document) which contains all of the relevant classification information for the object. Using generic terminology in a hierarchical structure, use of the system directs a user of the system to a single classification for any document. The system captures acronyms, vernacular and industry specific terms as well, as foreign terms, into a thesaurus that can be modified and appended as classification needs change. The system learns as synonyms are added to the hierarchical structure capturing differences in individual perception.

Legislative terminology describes document retention requirements by subject. In this connection, two major issues exist:

- 1. Documents whose retention is covered by legislative requirements must be retained a prescribed period of time, after a certain event takes place, e.g., after an audit is completed, when the document is superseded, when its purpose has been completed (such as a contract) and for certain corporate documents).
- 2. Legal penalties exist, including fines, where purging of documents occurs before their legal requirements have been met. On the other hand, retaining documents longer than their legal requirement can have both a "sword and a shield" effect where litigation is concerned.

3

With billions of documents being filed every day, the volume of documents subject to legislative retention offer additional justification for a system that makes retrieval inexpensive and predictable. Current practices involving the classification of documents make it difficult to identify documents by subject. However, retention legislation identifies documents by subject.

Accordingly, all documents must be identified by subject and ultimately destroyed consistently with the enterprise's official retention schedule.

In most cases legislation is silent as to the specific media to be used to "house" a document, This means that legislative retention requirements apply to all media. For example, if the paper document is destroyed and it continues to exist on magnetic media, the retention schedule is not effective and is not being enforced. This invention provides a reliable structure to accomplish compliance with all legislative retention requirements.

In addition to classifying documents to ensure compliance with legislatively or other required retention schedules, as a bi-product, the invention includes the capability of searching for the location of a particular document. To use the system for the location of any particular document, a descriptive term is entered at a query prompt that the user believes best describes the subject matter of the document in question. If this entry results in a hit, all information pertaining to the document is then available to query. An example of a screen display in which such a query may be made is shown in **Figure** 3. For example, entry of a descriptive term produces a particular subject classification (i.e., a class code as described below).

For a typical user, there is just a small set of documents within his or her responsibility. Thus, once within this relatively small set of documents, if only those assigned a particular class code are deemed to be "hits," the user is able to easily select the correct document from the set of hits. For users whose responsibility includes a large set of documents such that it would not be feasible to select a desired document from a list of documents assigned a particular class code hit list, a full range of attribute filters would be available to narrow the hits. Examples of such attribute filters include location (physical location such as file cabinet or work station), acronym (class codes, alpha and/or numeric references, i.e., form numbers, department IDs), organizational unit (cost center number, department number), subject description (i.e., class code), label description (e.g., three line description for a particular tangible asset as shown in **Figure** 1. If the entry term does not find a match in the hierarchical structure, the system will search a synonym database for a match. If the search of the synonym database also does not yield the desired document, it must be concluded that the desired document has not been classified.

By arranging terms from the general to the specific in a consistent classification format, the system is able to specify a physical location for a hard copy of a document by office, box, draw and folder, or of a document on magnetic or similar media by diskette location, hard disk drive location (i.e., computer) or network drive location (i.e., server) and file name. In this manner, for each document within a set of records, linking all relevant administrative document management functions and legal retention requirements for each document classified in the system is possible.

Selective and timely purging of documents is thus made possible, greatly facilitating the management of information for both current and prospective use.

Brief Description of the Drawings

Figure 1 is a screen display showing a query screen for performing a search.

Figure 2 is a screen display showing a list of synonyms.

Figure 3 is a screen display showing a query screen for performing a search.

Figure 4 is a screen display showing the results of a query of the type shown in Figure 3.

Figure 5 is a screen display showing a query screen for performing a search.

Figure 6 is a screen display showing the results of a query of the type shown in Figure 5.

Figure 7 is a screen display showing the results of a query of the type shown in Figure 5.

Figure 8 is a block diagram showing a high level view of the functions performed by the invented system.

Figure 9 is a block diagram showing the store documents function.

Figure 10 is a block diagram showing the maintain inventory function.

Figure 11 is a block diagram showing the maintain system function.

Figure 12 shows the layout for the entity relationship diagram shown in Figures 12A-12F.

Figures 12A-12C show the first row of Figures forming the entity relationship diagram.

Figures 12D-12F show the second row of Figures forming the entity relationship diagram.

Figure 13 shows the layout for the logical database model shown in Figures 13A-13L.

Figures 13A-13D show the first row of Figures forming the logical database model.

Figures 13E-13H show the second row of Figures forming the logical database model.

Figures 13I-13L show the third row of Figures forming the logical database model.

Figure 14 shows the layout for the physical database model shown in Figures 14A-14L.

Figures 14A-14D show the first row of Figures forming the physical database model.

Figures 14E-14H show the second row of Figures forming the physical database model.

Figures 14I-14L show the third row of Figures forming the physical database model.

Detailed Description of the Invention

This invention is a computer based system which provides a reliable structure to properly identify and track documents used by an enterprise throughout their life cycle to provide an efficient and easy to use mechanism to ensure that document retention requirements are complied with while enabling the orderly destruction of documents once their retention requirements have been satisfied.

In order to meet all the requirements of a document management system, it is necessary to develop a technique for classifying documents by subject. For this reason, the requirements of a document management system are more disciplined than any other component of an information resource management environment. One particular component is a detail tracking mechanism that must be in place to know where each document is and how many copies exist so that they all may be destroyed according to schedule.

Schedules must be rigorously followed. If the documents in question have to do with a litigation, the court in which the litigation is pending will test to determine if a true schedule exists and if records are destroyed in accordance with the schedule. If a true retention schedule does not exist, the company can be sanctioned for destroying records related to the case. The source of protection, and limiting exposure, lies within a disciplined document management program and enforcement of document retention policies covering all media.

Classification is performed when the document is created. There are a number of reasons for developing software that makes retrieval easier and control and tracking a bi-product of the processing which of necessity is already being performed. One factor which leads to performing document classification at document creation is placing the responsibility for classifying the document on the individual creating the document. The individual creating the document is in the best position to provide its proper classification. The time it takes to learn proper classifications for the subject areas

6

involved for the normal user is relatively short, typically a matter of hours. This small investment in time substantially reduces the time required for searches to locate documents for retention schedule compliance and for retrieval. Learning to classify at the time a document is "saved" enables the use of the same procedure when a search needs to be performed.

Almost all search engines in use today rely on various mechanical techniques and sophisticated algorithms to find documents that have been saved by an author using "on-the-fly" techniques for classifying. This invention provides a mechanism for the author/creator of the document to classify the document properly, and, in such a form that anyone searching for the document would, following the same sequence, find the document with ease. This makes investing a small amount of time on the "save" side important because it makes the search time much more productive and far quicker than prior art approaches.

The selection of terms and what are referred to as classes used in a hierarchical structure to classify documents must be of the most generic form possible. Terms used in each class, i.e., Major, Primary, Secondary, Tertiary and Quaternary, requires that each word has a relative relationship and the same value level as any other word in that grouping. In order to simplify the subject description, where possible, the first two letters of the word used in each level of hierarchy is selected as its acronym.

In a very short period of time, the acronyms become easily translatable as the individual users have an opportunity to work with the system. This ease of learning is more easily understood since the range of subjects in use by a predominance of users is limited to a very small number, usually between 10 and 15 classes. Rarely does anyone using a typical work station require global searches, i.e., searches extending through multiple organizational units. Such searches would require special security clearance and a substantial knowledge of system navigation.

The invention also employs the intelligent use of synonyms, i.e., a synonym database, as pointers. Synonyms are used to direct the user to the "official" term for the appropriate classification. To populate the synonym database, a document inventory is taken to collect the local terms being used to describe documents. It should be noted that a detailed inventory of document descriptions currently existing (i.e., prior to implementation of the invention) is not needed. However, when a system implementing the invention is initially used, it is preferable that there be some inventory of terms (synonyms) in use be available to the new users of the system to improve acceptance of the system and productivity. This inventory or synonym database can be created manually, i.e., by manual entry as part of the Browse Synonym function shown in Figure 9. The synonym database contains all or a subset of terms in use by the

7

organization to refer to a particular document instead of the "official" term used to classify that document. A screen display used for this purpose is shown in **Figure** 2.

Synonyms are assigned to each level of the hierarchy. This enables anyone to use a term that they perceive is related to the subject matter and be directed to a unique official classification.

There should be only one location in the hierarchy for any document. If it appears that there is more than one location, it generally means that the selected classification is not as precise as it should be, and it is likely that an additional classification should be added.

One of the most important strengths of using a synonym database to link the elements of the hierarchy is that it makes possible the use of local vernacular. Changes to the hierarchy are rare, leaving its structure stable. Almost all changes can be easily accomplished through changes in synonyms.

Because of the global scope of this invention, such as its use on the Internet, the use of foreign language terms in the synonym database makes it possible for the system to uniformly classify documents (as well as any other item) using any language throughout the world. With this range of flexibility, a unique classification tool exists for any multi-national information system.

One of the important aspects of this invention relates to its record retention components which create a records retention linkage. This includes tracking and providing a direct linkage to the terminology used in the U.S. Code of Federal Regulations and to similar legislative retention requirements of any other country. In addition to identifying the media, it also catalogs the type of record.

The document type determines the essential security requirements for these documents.

Use of the invention provides a system that ensures uniformity by all users when classifying documents by subject, i.e., a uniform subject classification system. This invention provides a hierarchically structured, subject oriented database, populated with terms in current use by the enterprise (i.e., chart of accounts and organizational chart) and by legislative references which pertain to the retention of documents. A typical set of class codes names with class code acronyms in a uniform subject classification is shown in Appendix I.

When a document is "saved," as on a magnetic media, or simply classified manually as in hardcopy documents, the system provides classification tools that enable the process to "find" the single proper classification in the hierarchy.

The "search" process is the reverse, where the search word (subject description) is entered into the system and the classification tools lead the user to the proper classification and then to the document being sought.

Supplemental databases containing synonyms are available for each line of the classification scheme. These databases can be added to by the user and in this way translate acronyms, local vernacular, abbreviations and foreign terms that reveal the user's perception of the subject being sought.

Associated with all documents belonging to the same subject (referred to as a "File Series") are a body of particular attributes set forth by legislative or informational requirements.

The invention provides a tracking mechanism to enable protecting, finding and retrieving a document, or group of documents (file series) when needed and to ultimately locate and destroy them when their life-cycle has been completed, as specified by an official retention schedule.

Using The Uniform Subject Classification System

I. Build A Classification Structure:

Select terms from legislative, business, government and other industry sources. Adapt terms used in the Code of Federal Regulations, state statutes and terms that are industry specific.

Organize selected terms into hierarchical order, i.e., primary class and sub-classes (i.e., secondary, tertiary, etc.).

II. Apply Synonyms To The Classification Structure

Assemble synonyms into a thesaurus and connect the synonyms with a particular file series (i.e., a line in the class hierarchy).

Build a database of local vernacular, acronyms, technical terms, etc.

Organize the database into the classification structure built in step I, appending to the synonym database, as appropriate.

Modify major classes, primary classes, secondary classes, etc. as required to fit the working environment.

III. Classify Documents

9

Determine major classes, e.g.,: Accounting, Administration, Finance, Marketing, Corporate, Legal, Engineering, etc. Major classes should be by functional class, not organizational names.

Using the first two characters in the class description, assign functional descriptions from the general to the specific, under the selected major class, then do the same thing for the selected primary class, secondary class, etc., until no further delineation is needed to classify all documents of interest. In most cases, no more than tertiary or quaternary classes are needed.

For example, a document containing "Employee Expense Accounts" would be classified as follows:

```
AC Accounting (MAJOR)

PA Payables (PRIMARY)

EM Employee (SECONDARY)
```

which results in the Uniform Subject Classification Code:

```
ACPAEM ACCOUNTING, PAYABLES, EMPLOYEE
```

Depending on need, class levels can be adjusted to fit local conditions.

```
AD Administration Level 1
FA Facilities Level 2
BU Buildings Level 3
OF Offices Level 4
FU Furnishings Level 5
AR Art Level 6
DE Desk Level 6
```

With the above class levels, the following are examples of acronyms which could be employed:

```
ADFAOF Administration, Facilities, Offices
ADFAOFFU Administration, Facilities, Offices, Furnishings
ADFUDE Administration, Furnishings, Desk
ADFUAR Administration, Furnishings, Art
```

The particular acronym which would be employed in any given situation would depend on how many levels are needed to identify particular items of interest so that they can be efficiently retrieved. For example, in some situations just two or three levels are sufficient because the number of items which are classified at that level of detail is sufficiently small such that a user can see on a single screen display all potential hits from which the desired item may be selected. In other situations, more levels may be needed where there are numerous items that satisfy a particular class code.

In these examples, the document would be a label affixed to the artwork or the desk. Such labels may also be affixed to a document or folder or box containing documents and/or folders. Additional data appearing on the label, referred to as "label lines," providing specific descriptions beyond the class itself. Label line descriptions are extensions of the class code and are searchable using well known automated search techniques. Labels are a part of the record when attached with the same retention value as the record which normally is then case when the label is associated with a particular folder. It should be noted that labels do not have a retention value when attached to an asset such as a desk.

IV: Finding Documents using the Uniform Subject Classification System

To illustrate this step, assume that it is desired to find job descriptions for an
employee's new assignment as Budget Analyst, a newly created position.

To determine what may be available to aid in the creation of a new job description, enter the term "job description" in an inventory label search field to determine the location for all Job Descriptions. In this connection, the label search field is part of a query screen display, an example of which is shown in **Figure** 1.

A typical response to the query provides the acronym of "HRJD", or "<u>H</u>uman Resources, <u>Job Descriptions</u>" as shown in the screen display of **Figure** 3.

Next, assuming that any job description for an Analyst would help in creating the new job description, a search on the word "Analyst" within the "HRJD" segment of the hierarchy displays "HRJDSA" for job descriptions related to a range of Systems Analysts positions as shown in the screen display of **Figure** 4 and "HRJDMA" for job description of a Marketing Analyst also shown in the screen display of **Figure** 4.

Next, search for job descriptions that are involved with the budgeting process to identify the terms used in describing the tasks and skills required:

Enter the word "budget" as shown in the screen display of Figure 5.

With full security clearance, the system would return:

"FIBU" or Finance, Budgets.

as shown in the screen display of Figure 6.

From the synonym table, the display would show the contents of the class table for the item located by the search as containing:
"HRJD" or "Human Resources, Job Description"
as shown in the screen display of **Figure** 4.

From the synonym table, a display would show the "folder" contents as containing a job description for "Manager, Budget Planning " as shown in the screen display of **Figure** 7.

By inspection, the searcher would select the analyst job descriptions as well as the one for "Manager" that might help in preparing the new description.

V. Associate The Class Acronym With Retention Data

Once steps I-III have been performed, it is possible to generate a report for each classification with the information shown in Table I. The information in the Med Typ, Rec Typ, Start After, Off Ret and RC Ret columns is initialized for each new document added to the system based on the class code. That is, for each class code, this information is stored in a class table and is predetermined based on business and government regulations. The information in the RCopy CC# column is obtained from a location table and is preset with a location code based on the workstation from which the data for the record was entered. By changed the data in the class table or location table, all documents associated with that class code or location would be changed as well. However, all of this information can be changed for individual documents, and once changed for a particular document, changes at the class table or location table level are not reflected in the records for such documents.

No.	Class Acronym	Class Code Name	Med Typ	Rec Typ	Start After	Off Ret	RC Ret	RCoy CC#
124	AD	Administration	0	0	AR	12	0	
125	ADFU	Furnishings	0	0	CT	12	24	99342
126	ADFUDE	Desks	0	0	SU	12	24	99342
127	ADFUDEX	Executive	0	0	SU	12	36	99342

TABLE I

In Table I, each row corresponds to a file series.

The column labeled "No." contains a unique computer generated numbers used to represent each file series.

The column labeled "Class Acronym" contains the classification acronyms.

The column labeled "Class Code Name" contains the official terms to describe documents.

The column labeled "Med Typ" represents media type, i.e., paper, magnetic, microfiche, etc. Each media type in the example is represented by a number, for example, 0 for paper, 1 for magnetic, 2 for microfilm, 3 for microfiche, 4 for CD-ROM.

The column labeled "Rec Typ" represents record type, i.e., Vital (V), Informational (I), Official (O), Sensitive (S).

The column labeled Start After contains the date starting the retention, e.g., annual review (AR), completed (CT), superseded (SU), current year (CY) and final audit (FA). The retention start date marks the beginning of the "clock" as related to "upon the completion of the audit" when the record is superseded, or beginning when

12

the contract has been completed, or when a license has expired. As a result, the creation date has little relevance to the legislative requirement for retention.

The column labeled "Off Ret" represents office retention in months.

The column labeled "RC Ret" represents records center retention in months.

The column labeled "RCopy CC#" represents record responsibility copy cost center number. This is the cost center number as identified in the Chart-of-Accounts for the organization. This cost center is the only cost center which can send documents in this file series to a long term storage facility (for archival). All other holders of copies of such documents (i.e., informational copies) would have been instructed to destroy such copies at the office level according to a predefined schedule for destruction of such documents, which as previously noted, would predate scheduled destruction of the official copy of the document.

An expanded example of a retention schedule appears in Table II.

AC	ACCOUNTING	1) FA	12	0	12	55000	26 CFR 1.6001.1
ACAJ	ADJUSTMENTS	1		CY CY	12 12	24 36	36 48	55260 55260	26 CFR 1.6001.1 ADMIN. DECISION
ACAJIT	INVENTORY CONSOLIDATIONS	1			12	12	24	55260	26 CFR 1.6001.1
ACAJITCN ACAJITMN	MAINTENANCE	ī		CY	36	ō	36	55260	ADMIN. DECISION
ACAJITWH	WAREHOUSE	ī		CT	84	0	84	55260	26 CFR 1.6001.1
ACAJRB	REIMBURSEMENTS	1		CY CY	12	24	36	55800	26 CFR 1.6001.1
ACAS	ASSETS	1 1		CY FA	24 24	36 36	60 60	55300 55330	26 CFR 1.6001.1 26 CFR 1.6001.1
ACASAM ACASAP	AMORTIZATIONS APPROPRIATIONS	1		FA CT	12	12	24	55330	26 CFR 1.6001.1
ACASAP	CAPITAL ASSETS	1		J FA	24	216	240	55330	26 CFR 1.6001.1
ACASCACC	COMPANY VEHICLES	1		CT CT	120	0	120	55330	26 CFR 1.6001.1
ACASDE	DEPRECIATING	1) FA	12	24	36	55340	26 CFR 1.312-15
ACASIT	INVENTORY	3 1		J FA	24 12	36 12	60 24	55440 55440	26 CFR 1.6001.1 26 CFR 1.6001.1
ACASITSP ACASITSU	SPECIAL ACCOUNTS SURPLUS	i		O CT	12	24	36	55440	26 CFR 1.6001.1
ACASITWH	WAREHOUSE	1		FA.	12	72	84	55440	26 CFR 1.6001.1
ACASITWHDI	DISBURSEMENTS	1) FA	12	60	72	55440	26 CFR 1.6001.1
ACASPR	APPRAISALS	1		SU SU	24	216	240	55200	26 CFR 1.6001.1
ACASVE	VEHICLES	2		CT FA	24 24	36 36	60 60	55440 56000	26 CFR 1.6001.1 26 CFR 1.6001.1
ACAU ACAUEX	AUDIT EXTERNAL	1) FA	24	36	60	56000	26 CFR 1.6001.1
ACAUEA	INTERNAL	ī) FA	24	36	60	56100	26 CFR 1.6001.1
ACAZ	AUTHORIZATIONS	1		CT	24	48	72	55260	ADMIN. DECISION
ACAZAV	TRAVEL	2) CT	24	0	24	55290	ADMIN. DECISION
ACAZAVDO	DOMESTIC	2 2	(CT CT	12 12	24 24	36 36	55290 55290	ADMIN. DECISION ADMIN. DECISION
ACAZAVIN ACBA	INTERNATIONAL BANKING	2	(CY CY	24	12	36	55500	ADMIN. DECISION
ACBACH	CHECKS	ī) FA	12	48	60	55500	26 CFR 1.6001.1
ACBACHCO	CHECK COPIES	1		O CT	36	48	84	55500	26 CFR 1.6001.1
ACBACHPC	PETTY CASH	1		CT	36	48	84	55500	26 CFR 1.6001.1
ACBACHPY	PAYROLL	3 1		O CY O CT	12 2	4 8 0	60 2	55550 55500	29 CFR 516.2,.5,.6 ADMIN. DECISION
ACBACHRE	REQUEST CASH OPERATIONS	3		O CT	12	60	72	55570	26 CFR 1.6001.1
ACBACO ACBADP	DEPOSIT SLIPS	ĭ		CY CY	12	60	72	55570	26 CFR 1.6001.1
ACBADR	DRAFTS	1		CT CT	12	0	12	55570	26 CFR 1.6001.1
ACBALC	LETTERS OF CREDIT	1		V CT	12	60	72	55570	26 CFR 1.6001.1
ACBARE	RECONCILIATIONS	3 1		D FA	18 36	24 0	42 36	55570 55570	26 CFR 1.6001.1 26 CFR 1.6001.1
ACBARM	BANK REMITTANCE RESOLUTIONS	1		O CT	12	24	36	55500	26 CFR 1.6001.1
ACBARS ACBAST	STATEMENTS	1) FA	12	84	96	55570	26 CFR 1.6001.1
ACBASTDO	DOMESTIC	1) FA	12	24	36	55570	26 CFR 1.6001.1
ACBASTFO	FOREIGN	1		D FA	12	48 456	60 4 B O	55570 77000	31 CFR 103.32 26 CFR 1.6001.1
ACBI	BALANCE SHEETS/INCOME ANALYSIS	STATEMNT2		D FA	24 24	456 456	480 480	77000	26 CFR 1.6001.1
ACBIAN ACBIPL	PROFIT & LOSS	i		O FA	24	456	480	77000	26 CFR 1.6001.1
ACCA	CAPITAL EXPENDITURES	1		V FA	12	24	36	55440	26 CFR 1.6001.1
ACCARE	REQUESTS	1		O CT	24	446	470	55440	ADMIN. DECISION
ACCAWP	WORKING PAPERS	1		O CT	24 12	446 987	470 999	55440 55000	ADMIN. DECISION ADMIN. DECISION
ACCH	CHART OF ACCOUNTS	1	•	O CY	12	24	36	557 0 0	26 CFR 1.6001.1
ACCO ACCR	COST ACCOUNTING CREDIT	1		O FA	48	60	108	55800	26 CFR 1.6001.1
ACCRAD	ADJUSTMENTS	ī		O FA	12	48	60	55800	31 CFR 103.33
ACCRAL	APPROVAL	1		O CY	12	48	60	55800	ADMIN. DECISION
ACCRAP	APPLICATIONS	1		O FA	24 24	36 24	60 48	55800 55800	31 CFR 103.33 29 CFR 516.2
ACCRCO	COLLECTIONS DOUBTFUL ACCOUNTS			O CT	12	108	120	55800	26 CFR 1.6001.1
ACCRCODO ACCRDO	DEPOSITS	ī		O CY	24	0	24	55800	ADMIN. DECISION
ACCRMM	MEMOS	1	. '	O CY		36	48	55800	26 CFR 1.6001.1
ACCRRT	REMITTANCES	1		O CY	24	48	72	55800	26 CFR 1.6001.1
ACIN	INVOICES	1		A CA O CA	24 24	48 48	72 72	55100 55100	ADMIN. DECISION ADMIN. DECISION
ACINEX	EXPORT INVESTMENT CREDITS	1		A CA CA	12	24	36	77000	26 CFR 1.46.1 &
ACIV	INVESTMENT CREDITS	1	-	•		2.3	30	,,,,,,	1.6001.1
ACJV	JOURNAL VOUCHERS	1	L '	V FA		216	240	55440	26 CFR 1.6001.1
ACLE	LEDGERS	1		V FA		987	999	55440	26 CFR 1.6001.1
ACLEAS	CAPITAL ASSETS	3	3	V FA	12	48	60	55440	26 CFR 1.6001.1;
A CIT PD 3	DANIV	3	ı	V FA	24	96	120	55440	1.312-15 26 CFR 1.6001.1
ACLEBA ACLEBO	BANK BOND	3		V FA		96	120	55440	26 CFR 1.6001.1
ACLECA	CASH	3	3	O FA		48	60	55440	26 CFR 1.6001.1
ACLECC	COST & CONTROL	3	3	O CY		36	48	55440	26 CFR 1.6001.1
ACLECH	CHECK REGISTER	3		O FA		60	72	55440	26 CFR 1.6001.1
ACLECM	CREDIT MEMOS	3		O FA V FA		2 4 60	36 72	55440 55440	26 CFR 1.6001.1 26 CFR 1.6001.1
ACLECU	CREDIT UNION DIVIDEND	3		V PA		96	120	55440	26 CFR 1.56-2
ACLEDI ACLEDR	DRAFTS	3		O FA		48	60	55440	26 CFR 1.6001.1
ACLEEX	EXPENSE	3	3	о ст	12	36	48	55440	26 CFR 1.6001.1
ACLEGL	GENERAL LEDGER	3	3	V CY	12	987	999	55440	26 CFR 1.6001.1

14

									CCCP 3001
ACLEIN	INVOICES	3	V	FA	12		60	55440	26 CFR 1.6001.1
ACLEIS ACLEIV	INSURANCE INVENTORY	3 3	v v	CT	12		84	55440	ADMIN. DECISION
ACLENO	NOTE REGISTER	3	v	FA CT	24 24		240 36	55440 55440	26 CFR 1.6001.1
ACLEPA	PAYABLE	3	ŏ	CY	12	_	999	55440	ADMIN. DECISION 26 CFR 1.6001.1
ACLEPB	PAYROLL	3	v	CT	12		36	55550	29 CFR 516.2, .5, .6
ACLEPE	PERSONNEL	3	0	CT	24	96	120	55440	29 CFR 1627.3
ACLEPR	PROPERTY ACCOUNTS	3	V	FA	24		240	55440	26 CFR 1.6001.1
ACLEPU ACLERE	PURCHASING PECELUARIE	3 3	0	FA	12	24	36	55440	26 CFR 1.6001.1
ACLESA	RECEIVABLE SALES	3	V V	CT CT	84	0	84	55440	ADMIN. DECISION
ACLESE	SECURITIES	3	V	FA	12 24	2 4 96	36 120	55440 77000	ADMIN. DECISION 26 CFR 1.6001.1
ACLEST	CAPITAL STOCK	3	v	FA	24	96	120	10000	26 CFR 1.57-5
ACLESU	SUBSIDIARY	3	v	CT	12	24	36	55440	26 CFR 1.6001.1
ACPA	PAYABLES	3	0	CY	12	24	36	55100	26 CFR 1.6001.1
ACPAEM ACPAEMCC	EMPLOYEE EXPENSES CREDIT CARDS	3 3	0	FA CY	12	24	36	55100	26 CFR 1.274-5
ACPAFR	FREIGHT	3	Ö	FA	12 12	48 24	60 36	55100 55150	26 CFR 1.274-5
ACPAIN	INVOICES	3	ŏ	FA	24	48	72	55150	26 CFR 1.6001.1 26 CFR 1.6001.1
ACPALE	LEASING	1	0	FA	12	24	36	55100	26 CFR 1.6001.1
ACPALEVE	VEHICLES	1	0	FA	24	36	60	55100	26 CFR 1.6001.1
ACPALEVEQU		1	0	FA	24	36	60	55100	26 CFR 1.6001.1
ACPANO ACPAPP	NOTES, PAYABLE PREPAID EXPENSES	1 1	0	CT	24	12	36	55100	26 CFR 1.6001.1
ACPATC	TELEPHONE BILLS	1	0	CT	12 12	0 24	12 36	55100	ADMIN. DECISION
ACPAVE	VENDORS	1	o	CY	12	24	36	55100 55100	26 CFR 1.6001.1
ACPAVO	VOUCHERS	î	ŏ	CY	` 12	60	72	55100	26 CFR 1.6001.1 26 CFR 1.6001.1
ACPB	PAYROLL	3	ō	FA	18	18	36	55300	29 CFR 516.2
ACPBDE	DEDUCTIONS	3	0	CT	12	36	48	55300	26 CFR 31.6001.1
ACPBTI	TIME SHEETS	1	0	CT	12	60	72	55300	29 CFR 516.256
ACPBWX ACRC	W-2'S &ALL GOVNMT PAYROLL RECONCILIATIONS		0	FA	12	24	36	55300	29 CFR 516.2
ACRE	RECEIVABLES	3 3	o V	FA CT	12 12	24 24	36	55800	26 CFR 1.6001.1
ACREAJ	ADJUSTMENTS	3	ŏ	CT	12	108	36 120	55900	26 CFR 1.6001.1 ADMIN. DECISION
ACREBI	BILLING	3	v	CT	12	108	120	55900	29 CFR 516.2
ACRT	REMITTANCES	3	0	CY	24	48	72	55910	ADMIN. DECISION
ACTA	TAX	1	0	FA	12	48	60	55920	26 CFR 1.6001.1
ACTACO	CORPORATE	1	V	CY	12	24	36	55920	26 CFR 1.6001.1
ACTAFE	FEDERAL	1	v	FA	12	24	36	55920	26 CFR 1.6001.1
ACTAFO ACTALO	FOREIGN LOCAL	1 1	V	FA	24	96	120	55930	29 CFR 516.2
ACTAPB	PAYROLL	1	V	FA FA	12 12	24 24	36 36	55920 55950	26 CFR 1.6001.1
ACTAPR	PROPERTY	ī	v	FA	12	24	36	55940	26 CFR 1.6001.1 26 CFR 1.6001.1
ACTASA	SALES	1	v	FA	12	24	36	55960	26 CFR 1.6001.1
ACTAST	STATE	1	v	FA	12	24	36	55920	26 CFR 1.6001.1
ACTAUN	UNEMPLOYMENT	1	0	FA	12	60	72	55945	26 CFR 31.6001.1
AD ADAG	ADMINISTRATION AGENDAS/SCHEDULES	1	0	AR CT	12 12	0	12	20000	ADMIN. DECISION
ADAS	ASSOCIATIONS/ORGANIZATIONS	1	0	CT	12	36 0-	48 12	21000	ADMIN. DECISION
ADBU	BULLETINS/PUBLICATIONS	ī	ŏ	CT	12	24	36	21100	ADMIN. DECISION ADMIN. DECISION
ADBUDM	DEVELOPMENT MATERIAL	1	O	CY	12	6	18	21100	ADMIN. DECISION
ADBUFR	FREIGHT BROCHURES	1	O	SU	12	24	36	21100	ADMIN. DECISION
ADBUPD	PRODUCTION	3	0	CT	12	48	60	21000	ADMIN. DECISION
ADCH ADCO	CHRONOLOGICAL FILES COMMITTEES/MEETINGS	1	0	CT	36	0	36	22000	ADMIN. DECISION
ADCO	COMMUNICATIONS	1 1	0	CT CY	12	48	60	21000	ADMIN. DECISION
ADCR	CONSULTANT INFORMATION		Ö	CT	12 12	0	12 12	25000 21000	ADMIN. DECISION
ADCU	CORRESPONDENCE	ī	ŏ	CY	12	24	36	22000	ADMIN. DECISION ADMIN. DECISION
ADCUID	INTERDEPARTMENT	1	Ō	CT	24	ō	24	22000	ADMIN. DECISION
ADCUIN	INSURANCE	1	0	CT	120	0	120	22000	ADMIN. DECISION
ADCUMK	MARKETING	1	0	CT	24	0	24	22000	ADMIN. DECISION
ADDP	EDP-INFORMATION SYSTEMS	3	0	CT	12	24	36	24000	ADMIN. DECISION
ADDPLY ADES	TAPE LIBRARY EMPLOYEE SUGGESTIONS	3 1	0	CY CT	12 24	24 48	36	24100	ADMIN. DECISION
ADIN	INSURANCE	3	v	CT	12	24	72 36	20000 26000	ADMIN. DECISION
ADINCL	CLAIMS	3	ŏ	CY	12	72	84	26000	ADMIN. DECISION ADMIN. DECISION
ADINCV	COMPANY VEHICLES	3	0	CT	12	24	36	26100	ADMIN. DECISION
ADISPO	PRINTOUT	1	0	CT	12	0	12	26100	ADMIN. DECISION
ADLS	LEASING	3	V	CT	12	24	36	26400	ADMIN. DECISION
ADLSOF	OFFICE EQUIPMENT	3	0	CT	24	36	60	26400	ADMIN. DECISION
ADLY ADOA	LIBRARY OFFICE AUTOMATION	1 3	0	CT	12	12	24	22000	ADMIN. DECISION
ADOF	OFFICE AUTOMATION OFFICE EQUIPMENT	<i>3</i>	0	CT CT	12 12	24 24	36 36	24000 22100	ADMIN DECISION
ADOR	ORGANIZATION CHARTS	í	v	รบ	12	228	240	22100	ADMIN. DECISION ADMIN. DECISION
ADPC	PROCEDURES	3	v	su	24	216	240	22700	ADMIN. DECISION
ADPL	PLANNING	1	0	SU	12	24	36	22700	ADMIN. DECISION
ADPO	POLICIES	1	0	SU	12	228	240	22700	ADMIN. DECISION
ADPR	PROJECTS	3	0	CT	24	36	60	22000	ADMIN. DECISIO

15

ADPS	PRESENTATION MATERIAL	1	0	CT	24	36	60	22000	ADMIN. DECISION
ADPU	PURCHASING	3	0	CT	24	60	84	22800	ADMIN. DECISION
ADPUDS	DISTRIBUTION	3	0	CY	12	24	36	22800	
ADRE	RECORDS MANAGEMENT	1 1	0	CT CY	12 12	24 12	36	22900 22900	
ADRERQ	REQUESTS RETENTION SCHEDULE	1	0	CT	36	963	24 999	22900	ADMIN. DECISION ADMIN. DECISION
ADRERS	VITAL RECORDS	1	Ö	CT	0	999	999	22900	ADMIN. DECISION
ADRERV ADRG	REPROGRAPHICS	1	0	CT	12	24	36		ADMIN. DECISION
ADRG	SHIPPING	3	ő	FA	12	24	36	23000	26 CFR 1.6001.1
ADSHBL	BILLS OF LADING	1	ŏ	CT	84	0	84	23000	26 CFR 1.6001.1
ADSU	SUPPLIES	3	0	CY	12	0	12	22800	ADMIN. DECISION
ADTR	TRAVEL INFORMATION	3	0	CY	12	24	36	20200	ADMIN. DECISION
CO	CORPORATE	1	V	CY	12	987	999	10000	ADMIN. DECISION
COAC	ACQUISITIONS	1	V	CT	24	216	240	12000	26 CFR 1.6001.1
COAU	AUDITS	1	V	FA	12	24	36	15000	26 CFR 1.6001.1
COBD	BONDS	1	V	CT	24	96	120	12000	ADMIN. DECISION
COBO	BOARD OF DIRECTORS	3 3	V	CY	24 24	975 975	999		CCCP 1500
COBOCM	COMMITTEES	3	Ö	CT Ar	24	48	999 72		CCCPCH 15 SEC1500+ CCCPCH 15 SEC 1500+
COBOCO	COMPENSATION MEETINGS/MINUTES	1	ŏ	CT	24	975	999	10100	CCCPCH 15 SEC 1500+
COBOME COBY	BY-LAWS	î	v	SU	24	0,0	24		CCCPCH 15 SEC 1500+
COCH	CHARTER	î	v	SU	24	ŏ	24		CCCP CH 15 SEC 1500+
COCT	CONTRIBUTIONS	3	0	CT	12	24	36	13000	26 CFR 1.70A-13
COCTMCH	MEETINGS/MINUTES	1	O	CT	24	975	999	13000	CCCP CH 15 SEC 1500
CODB	DOING BUSINESS AS	1	0	CT	999	999	1998		ADMIN. DECISION
COER	ELECTION RECORDS	3	0	FA	24	216	240		CCCPCH 15 SEC 1500+
COHI	HISTORY	1	0	CY	12	24	36	10000	ADMIN. DECISION
COIN	ARTICLES OF INCORPORATION	1	V	CT	120	0	120		CCCPCH 15 SEC 1500+
COME	MERGERS	3 1	V V	CT CT	24	216 0	240	12000	CCCP 1109
COSE	SEALS	3	v	SU	120 24	975	120 999	10000 16000	ADMIN. DECISION CCCPCH 15 SEC 1500+
COSH	SHAREHOLDERS MEETINGS	1	V	CT	24	975	999		CCCP. Sec 15:1500+
COSHME COSHNO	NOTES	i	v	CT	24	96	120	16000	ADMIN. DECISION
COSHPR	PROXIES	î	ò	CT	24	96	120		CCCP Sec 3
COST	STOCK	ī	ŏ	CT	24	975	999	16100	26 CFR 1,57-5
COSTDI	DIVIDENDS	3	Ö	CT	24	96	120	16100	26 CFR 1.6001.1
COSTSB	SUBSCRIBERS	3	О	AR	24	12	36	16100	ADMIN. DECISION
COSTSU	SUBSCRIPTIONS	1	0	AR	24	96	120		ADMIN. DECISION
EIN	ENGINEERING	1	О	CT	12	24	36	90000	ADMIN. DECISION
ENBP	BLUEPRINTS	1	0	CT	24	96	120	91000	ADMIN. DECISION
ENDA	DATA BOOKS	1	0	CT CY	24	96	120 999	91000	ADMIN. DECISION
ENDE	DESIGNS	3	Ö	CT	12 12	987 987	999	91000 91000	ADMIN. DECISION ADMIN. DECISION
ENDR ENFO	DRAWINGS FORMULAS, TECHNICAL	3	v	CT	24	96	120	91100	ADMIN. DECISION
ENIE	INDUSTRIAL ENGINEERING	1	ò	AR	24	0	24	91300	ADMIN. DECISION
ENIEME	METHODS IMPROVEMENTS	1	O	CT	24	Ō	24	91300	ADMIN. DECISION
ENMA	MAPS	1	0	CT	24	216	240	91000	ADMIN. DECISION
ENPR	PROJECTS	3	О	СТ	24	216	240	95000	ADMIN. DECISION
ENSC	SPECIFICATIONS	3	0	CT	12	987	999	91100	ADMIN. DECISION
ENST	STANDARDS	1	V	CT	12	987	999	91300	ADMIN. DECISION
ENTS	TESTING	3	0	CT	12	0	12	96000	ADMIN. DECISION
FI	FINANCE	1	0	FA	12	24	36	70000	26 CFR 1.6001.1
FIAN	ANALYSIS/STUDIES	1	0	CY CT	24 12	12 24	36 36	71000 72000	ADMIN DECISION
FIBU	BUDGETS	1	0	CT	24	12	36	72000	ADMIN. DECISION ADMIN. DECISION
FIBUAZ FIBUES	AUTHORIZATIONS ESTIMATES	1	Ö	CT	12	72	84	72000	ADMIN. DECISION
FIBUPE	PERFORMANCE ANALYSIS	1	ő	CT	12	24	36	72000	ADMIN. DECISION
FIBUPL	PLANNING	1	0	SU	12	24	36	72000	ADMIN. DECISION
FIBURD	RESEARCH & DEVELOPMENT	1	0	CT	24	12	36	72000	ADMIN. DECISION
FICA	CAPITAL PLAN	1	v	FA	12	24	36	72500	26 CFR 1.6001.1
FICAEX	EXPENDITURES	3	0	FA	24	12	36	72500	26 CFR 1.6001.1
FIEC	ECONOMIC ANALYSIS	1	0	SU	24	96	120	72200	ADMIN. DECISION
FIFI	FINANCIAL REPORTS	1	v	CT	12	24	36	72200	ADMIN. DECISION
HR	HUMAN RESOURCES	1 1	0	AR CY	12	0	12	30000	ADMIN. DECISION
HRAF	AFFIRMATIVE ACTION	т	O	CY	12	24	36	31000	41 CFR 60-7 4 1.5,
.52, HRBE	BENEFITS	3	V	CT	12	48	60	32000	26 CFR 1.414 (F)-1
HRBEBP	BONUS PLAN	3	Ô	CT	12	96	108		ADMIN. DECISION
HRBEIN	INSURANCE	í	ŏ	CT	12	24	36	32100	
HRBEINAU	AUTHORIZATIONS	1	O	CT	12	72	84	32100	26 CFR 1.6001.1
HRBEINCC	COMPANY VEHICLES	1	0	CT	0	0	0	32200	26 CFR 1.6001.1
HRBEINCL	CLAIMS	1	0	CT	12	146	158	32100	26 CFR 1.6001.1
HRBEINDE	DENTAL	1	0	CT	12	60	72	32100	26 CFR 1.6001.1
HRBEINDI	DISABILITY	1	0	CT	12	60	72	32100	26 CFR 1.6001.1
HRBEINLI	LIFE	1	0	CT CT	12 12	48 72	60 84	32110 32110	29 USC 626 26 CFR 1.6001.1
HRBEINME	MEDICAL PLAN	1	0	SU	12	12 48	60	32110	26 CFR 1.6001.1 29 USC 626
HRBEINPL HRBEINUN	UNEMPLOYMENT	1	o	CT CT	12	24	36	33000	CA C.P.S.1132;
TIMBETHON	OHIME HOTHEMI	_	٥	~.	4 10		20	33000	26 CFR 31.6001.1
HRBEINWC	CA WORKERS' COMPENSATION	A1	0	CT	12	108	120	33000	WORKERS.
COMPENSATI									

•	
7	
- [G D

HRBEIV HRBELO	Investments/savings Employee loans	1 1	0	CT CT	12 24	24 48	36 72	32000 32000	26 CFR 1.6001.1 26 CFR 1.6001.1
HRBEMI HRBEPE	MANAGEMENT INCENTIVE PLAN PENSION PLAN	1	0 V	CT CY	12 12	96 48	108 60	34000 34000	ADMIN. DECISION 29 USC 626; 26 CFR 1.6001.1
HRBEPU HRBERE	EMPLOYEE PURCHASE RETIREMENT PLAN	3 1	o V	CY	12 12	48 84	60 96	34000 34000	ADMIN. DECISION 29 CFR 2610.11; 26 CFR 1.6001.1
HRBESB HRBEST	SAVINGS BOND STOCK OPTION PLAN	3 1	o V	CT SU	24 24	48 48	72 72	34000 34000	ADMIN. DECISION 26 CFR 1.6001-1
HRBEVA HRED	VACATIONS EDUCATION/TRAINING	3	0	CY	12 12	24 24	36 36	34000 35000	ADMIN. DECISION ADMIN. DECISION
HREE	EEO	1	0	CY	12	987	999	31000	29 CFR 1607.4 ; 29 CFR 516.5
HREM HREMAC	EMPLOYEES ACTIVE	3	0	CT CT	12 12	24 987	36 999	35000 35000	29 CFR 1627.3 29 CFR 1627.3
HREMAP HREMAPRE	APPLICATIONS RESUMES	1 1	0	CY CT	12 60	2 4 0	36 60	35000 35000	29 CFR 1627.3 ADMIN. DECISION
HREMET 516.2	EMPLOYMENT	3	0	CT	12	24	36	35000	29 CFR 1627.3 &
HREMHI HREMMS	HISTORY MILITARY SERVICE	3 3	0	CT CT	12 24	36 12	48 36	35000 35000	29 CFR 1627.3 26 CFR 1.6001.1
HREMPA	PERFORMANCE APPRAISAL	1	0	CY	12	12	24	35000	ADMIN. DECISION
HREMRE HREMRL	RETIRED RELOCATIONS	3	0	CT CT	12 12	987 146	999 158	35100 35200	29 CFR 516.2 29 CFR 1627.3
HREMSF	STAFF TRANSFERS	3	ŏ	CY	12	24	36	35200	26 CFR 1.6001.1
HREMTE	TERMINATED	3	0	CT	12	24	36	35000	29 CFR 516.2
HREMWS HREP	WAGE/SALARY EMPLOYEE RELATIONS	3 1	0	CY	12 0	12 36	24 36	35000 36000	ADMIN. DECISION ADMIN. DECISION
HREPCS	CAREER SERVICING	1	ŏ	CT	12	36	48	36000	ADMIN. DECISION
HREPJE	JOB EVALUATION	1	0	CY	12 12	96	108	36000	26 CFR 1.6001.1
HREPSU HRJD	SURVEYS JOB DESCRIPTION	1	0	CA	12	12 24	24 36	36000 35300	ADMIN. DECISION ADMIN. DECISION
LE	LEGAL	1	0	CY	12	0	12	10500	ADMIN. DECISION
LEAF LECA	AFFIDAVITS CASE RECORDS	1 3	0	CT	24 24	116 96	140 120	10500 10500	ADMIN. DECISION ADMIN. DECISION
LECAAB	ARBITRATION, STATE	3	Ö	CY	12	24	36	10500	ADMIN. DECISION
LECM	COMPLIANCE	1	0	CT	36	0	36	10510	ADMIN. DECISION
LECMIG LECMRE	INVESTIGATIONS REGULATIONS	1 1	0	CT CT	36 60	0	36 60	10510 10510	ADMIN. DECISION ADMIN. DECISION
LECMRK	RIGHT-TO-KNOW	ī	ŏ	CŢ	12	ő	12	10510	ADMIN. DECISION
LECO	CONTRACTS/AGREEMENTS	1	V	CT	12	48	60	10600	ADMIN. DECISION
LECOBS LECOLA	BILLS OF SALE LABOR	1 1	0	CT	12 12	24 987	36 999	10600 10600	26 CFR 1.6001.1 26 CFR 1.6001.1
LECOPA	PROMOTIONAL AGREEMENTS	1	0	CY	12	12	24	10600	26 CFR 1.6001.1
LECOSA LECU	SALE OF PRODUCTS U.S. CUSTOMS	1 1	0	CT CY	12 12	36 24	48 36	10600 1 060 0	26 CFR 1.6001.1 ADMIN, DECISION
LEDE	DEEDS/ABSTRACTS/TITLES	1	v	CT	240	0	240	10600	ADMIN. DECISION
LEEA	EASEMENTS/RIGHTS OF WAY	1	٧	CT	240	0	240	10600	ADMIN. DECISION
LEEX LEFD	EXPORT REGULATIONS FOOD AND DRUG ADMINISTRATION		0	SU CY	12 2 4 0	12 0	24 240	10500	ADMIN. DECISION ADMIN. DECISION
LELE	TENCEC	1	V	CT	24	216	240	10600	26 CFR 1.6001.1
LELI	LITIGATION	1	0	CT CT	12	12	24	10700	ADMIN. DECISION
LELIAP LEMO	MORTGAGES	1	v	CT CT	24 12	12 24	36 36	10700 10600	ADMIN. DECISION ADMIN. DECISION
LENO	LEASES LITIGATION OPSAAC MORTGAGES NOTARIES OUTSIDE COUNSEL PATENTS/TRADE MARKS PERMITS	1	0	CT	12	O	12	10500	ADMIN. DECISION
LEOC LEPA	OUTSIDE COUNSEL	1	0	CY CT	12 12	24 987	36 999	10500 10510	ADMIN. DECISION ADMIN. DECISION
LEPE	PERMITS	1	ő	CT	24	219	243	10600	ADMIN. DECISION
LEPL	PRODUCT LIABILITY CLAIMS	1	0	CT	12	60	72	10700	ADMIN. DECISION
LETS LEWA	TRADE SECRETS WARRANTIES	1	V O	CT CY	240 12	0 48	2 4 0 6 0	10510 10510	ADMIN. DECISION ADMIN. DECISION
MF	MANUFACTURING	ĩ	Ō	AR	24	0	24	40000	ADMIN. DECISION
MFAR MFJR	DRAWINGS	1	0	CT CT	12 24	60 36	72 60	41000 41000	ADMIN. DECISION ADMIN. DECISION
MFPC	PRODUCTION CONTROL	3	ó	CT	12	24	36	41000	ADMIN. DECISION ADMIN. DECISION
MFPCPS	PLANNING/SCHEDULING	3	0	CT	24	0	24	41000	ADMIN. DECISION
MFPCWO MFRM	PRODUCT LIABILITY CLAIMS TRADE SECRETS WARRANTIES MANUFACTURING DRAWINGS JOB RECORDS PRODUCTION CONTROL PLANNING/SCHEDULING WORK ORDERS RAW MATERIALS SHIPPING CLAIMS TARIFFS MARKETING ADVERTISING BUSINESS DEVELOPMENT PRODUCT TESTING COMPETITION CONSUMER RELATIONS	ქ შ	0	CT CY	24 12	24 36	48 48	41000 42000	ADMIN. DECISION ADMIN. DECISION
MPSH	SHIPPING	3	o	A R	24	12	36	43000	26 CFR 1.6001.1
MFSHCL	CLAIMS	1	0	CT	12	48	60	43000	ADMIN. DECISION
mfshta Mk	TARIFFS MARKETING	ک 1	0	SU	12 12	36 24	48 36	10600 80000	ADMIN. DECISION ADMIN. DECISION
MKAD	ADVERTISING	ī	0	CY	12	24	36	81000	ADMIN. DECISION
MKBD	BUSINESS DEVELOPMENT	1	0	CY	12	24	36	81100	ADMIN. DECISION
MKBDPT MKCO	PRODUCT TESTING COMPETITION	3	0	CT	24 24	0	24 24	81100 81100	ADMIN. DECISION ADMIN. DECISION
MKCR		1	O	CY	12	24	36	81200	ADMIN. DECISION
MKGR	GRAPHICS	3	0	AR CV	12	24	36	82000	ADMIN. DECISION
MIKMIR	MARKET RESEARCH	د	0	CY	12	24	36	83000	ADMIN. DECISION

4	٦.
Ţ	- 1

MKMRDV	DEVELOPMENT	3	٥	CY	12	6	18	83000	ADMIN.	DECISION
MKMRSU	SURVEYS	3	0	CY	12	6	18	83000	ADMIN.	DECISION
MKPD	PRODUCT DEVELOPMENT	1	0	CY	12	24	36	84000	ADMIN.	DECISION
MKPR	PUBLIC RELATIONS	1	0	CY	12	24	36	85000	ADMIN.	DECISION
MKSA	SALES	1	0	CY	12	24	36	81100	ADMIN.	DECISION
MKSAEX	EXPORT	1	0	CT	12	24	36	81200	15 CFR	30.11
MKSAPR	PRICING	1	0	SU	12	3.6	48	80000	ADMIN.	DECISION
OP	OPERATIONS	1	0	AR	12	0	12	45000	ADMIN.	DECISION

ď	CE	
۱	X	

OPDC	DISTRIBUTION CONTROL	3	0	CY	12	24	36	45000	ADMIN. DECISION
OPDCFG	FINISHED GOODS	3	ŏ	CY	12	24	36	45100	
OPDR	DISASTER RECOVERY PLANNING	1	v	SU	24	975	999	22900	
OPFA	FACILITIES	3	ò	CT	24	48	72	45200	
OPFAPL	PLANS	ž	ŏ	CY	12	24	36	45300	
OPMA	MAINTENANCE	ă	ő	CY	12	987	999	45300	
OPOR	ORDERS	จั	ŏ	AR	24	0	24	45100	ADMIN. DECISION
OPOA	OUALITY ASSURANCE	3	Ö	CT	60	Ö	60		ADMIN. DECISION
OPOARP	REPORTS	1	-	CT	18	-		46000	ADMIN. DECISION
-		Ţ	0			.6	24	46000	ADMIN. DECISION
OPSA	SAFETY/ENVIRONMENTAL HEALTH	3	0	CY	12	48	60	47000	29 CFR 1910.20
OPSAAC	ACCIDENTS	1	0	CY	12	348	360	47100	29 CFR 1904.4
OPSADS	SAFETY RECORDS	1	0	CT	999	0	999	47100	ADMIN. DECISION
OPSAHM	HAZARDOUS MATERIAL PLAN	3	0	SU	120	0	120	47100	29 CFR 1910.120
OPSAHW	HAZARDOUS WASTE	3	0	CY	12	24	36	47100	29 CFR 1910.120
OPSAIG	INVESTIGATIONS	3	0	CY	12	24	36	47110	ADMIN. DECISION
OPSATE	TESTS	3	O	CY	12	12	24	47200	ADMIN. DECISION
OPSE	SECURITY	3	0	CY	12	24	36	48000	ADMIN. DECISION
OPSEC	COUNTERMEASURES	3	0	CT	24	0	24	48000	ADMIN. DECISION
RE	RESEARCH/DEVELOPMENT	1	0	CY	12	24	36	93000	ADMIN. DECISION
REIN	INGREDIENTS/FORMULAS	3	O	SU	24	975	999	93100	ADMIN. DECISION
REPR	PRODUCTS	3	0	CT	24	96	120	93200	ADMIN. DECISION
REPT	PROJECTS	3	Ō	CT	24	96	120	93400	
RESP	ENGINEERING/TECH SPECIFICATION	วพร	ŏ	CT	24	96	120	93500	
RETR	TECHNICAL REFERENCES	3	ŏ	CT	24				ADMIN. DECISION
LCT IV	TECHNICAL VELEVENCES	3	U	CI	24	96	120	93600	ADMIN. DECISION

Table II

19

VI. Purge Documents Selectively And Within Legal And Administratively Defined Requirements

Using predetermined life-cycles (retention schedules) for each file series, the system identifies documents subject to purging.

The system automatically identifies the "owner" of the document and the location of all copies, both Official and Informational. Such ownership is determined by virtue of the ownership of the file series of the document which in turn is determined by the functional responsibility of the cost center in the Chart-of-Accounts (organizationally). As noted above, the system captures the location and the cost center when the user "saves" a created (or modified) document based on information in the class table and location table.

By use of the system a report may be produced identifying the selected document's key attributes allowing the "owner" to review the document and authorize the purge process, or any other access to or modification of a file series and records in the file series.

The above described system may be implemented entirely in software as described below.

Design Details

The following is a description of an implementation of an Electronic Records System (ERS) according to the present invention as a computer program designed to assist in the management and long term storage of an organization's documents.

Overview

ERS is a client/server application to assist in the management of valuable corporate information.

- ERS maintains a record retention schedule detailing how information ought to be stored, where, and for how long.
- The application helps the user classify documents into groups of similar information.
- ERS provides document security. It can prevent unauthorized reading of, or writing to official corporate information.
- ERS provides a means to search for documents pertaining to a specific subject, date range, author, etc.
- The system acts as a pointer to direct users to where information is stored.

Definition of User Community

The ERS application has four categories of user. Each group of users and their responsibilities are described below.

Records Manager

The Records Manager is responsible for the overall performance of the system. The manager has the greatest amount of authority and access. The responsibilities of the Records Manager are the following:

Sets policy for record storage. This policy includes what media to use for long term storage.

Creates new classes and maintains the retention schedule.

Monitors the performance of the entire application.

Re-classifies documents that have been mis-classified.

Information Services

The Data Processing, Management Information Systems, or the Information Services organization plays a role in the management of documents. Their responsibilities are defined below:

Under the direction of the Records Manager, move documents from one media to another. For example, Information Services will be responsible for moving documents from disk to tape or microfiche.

Also Information Services will be responsible for moving documents from one location to another. Movement of records will apply to only those media they deal with (Tapes, microfiche, etc.).

Information Services will be responsible for maintaining the technical environment. This includes setting up databases, insuring that all users and servers are configured properly, etc.

Department Coordinator

The Department Coordinator is sometimes referred to as a 'Super User'. They have more authority and system access than a normal user, but less than the Records Manager. The responsibilities of the Department Coordinator are the following:

Provide training and technical support to users within the department.

Monitors the performance of the system regarding departmental records.

Creates and sets up new users.

Enforces record retention policy for official records created by the department.

Manages the logistics of moving records to and from a storage facility.

21

User

WO 98/12616

The majority of individuals accessing the system will be categorized as users. Their responsibilities are listed below:

Properly classifies records they create.

Enforces record retention policy for informational records created by them.

Policies

There are a number of office policies and procedure that need to be followed in order for ERS to be a successful application. Some of these policies are documented below.

Users and Class Assignments

Any user can assign any class to a document. They will not be prevented by the ERS application from assigning classes outside their area of the organization. However, audit reports will be made available to the Departmental Coordinators and Records Manager to help insure that classes are being used properly.

No Class Attribute Overrides

Each class has attributes. There attributes are retention period, record type (official, informational), sensitivity, and vital flag, etc. Users can not override these values with their own when storing a document. If they need different attribute values than what is associated with a given class, then they should contact the Record Manager. The Record Manager may then create a sub class having the attribute values desired by the user.

Classification Owner

There will be one cost center that owns each classification. A classification will no be the responsibility of two or more cost centers. The cost center the owns a classification is responsible for all the documents that have been assigned to that classification. The cost center must insure that the inventory of documents is correct and properly maintained.

Location and Class Assignment

If a document is assigned a classification at the major level, then it can not be located in any archive facility. For example, if a document is classified as 'AC' for accounting, then it can not be stored at a off site storage facility. If the same document was classified as 'ACAP' for accounting, accounts payable, then it could be stored at a warehouse.

One Production Database Per User

A user can have access to several ERS databases. One for production work and one database for training, for example. However, no user will have write access to two production databases. There will be no support for across production database searches.

System Functions

All the capabilities of the system can be described as functions. Functions fall into five types. They are reports, updates, inquires, interfaces, utilities. These functions are described below by the group of user who will access them.

User Functions

All individuals who have access to the system will be able to operate the functions defined as follows:

Application Package File Open Function

From a word processing, spreadsheet, or presentation software package, a user will be able to pull down the package's File menu and activate the Open menu item. This will access ERS, automatically. The features of this function are described below.

Search and Retrieve Feature

The user will have the ability to retrieve and open a document by searching for its classification, synonym, or other attributes such as author, title, and/or date. If multiple documents are found that satisfy the users search criteria, a list of these documents will be displayed for the user to pick from. The documents being searched may be found on the users hard drive, shared network drive, or archive facility (Mezzanine).

Application Package File Save Function

From a word processing, spreadsheet, or presentation software package, a user will be able to pull down the package's File menu and activate the Save or Save As menu items. This will access ERS, automatically. The features of this function are described below.

Document Storage Feature

The users will have the ability to store at document on their hard drives, shared network drives, or archive facility (Mezzanine). Regardless of where the user stores the document, they will have the ability to manage their documents with ERS classifications and synonyms.

Classification Assignment Feature

Users will be able to assign any classification directly to the document. Or, users can select a corporate synonym (official term or keyword) to be applied to the document. Behind the scenes, ERS will assign the classification associated with the corporate synonym to the document. Also, the user may wish to assign one of their own synonyms to the document. ERS will automatically translate from the user's synonym to the appropriate corporate synonym and assign the classification to the document.

Synonym Maintenance Feature

Users will have the ability to add, change, or delete their own synonyms. They may create synonyms different than the corporate synonyms. However, user created synonyms must be related to corporate synonyms. User synonyms will be children of a corporate synonym.

Attribute Maintenance Feature

When saving a document, a user will have the ability to store other attributes about the document. These attributes are title, subject, author, date created, etc.

Stand Alone ERS User Functions

Not all the functions the user needs can be accessed via an application package such as Microsoft Word. There will need to be a stand alone ERS application (.EXE) the user can run. The functions contained within this facility are described below.

Update Functions

Inventory Maintenance	The ability to correct	t mis-a	assigned
	The ability to correct	C ALLO C	

classifications given to items in inventory. This function assists the user in properly assigning classifications to documents.

Inventory Entry The ability to add an item to inventory and

to assign it a classification. This function is needed to store items that are not word processing documents, spread sheets, or presentations. Such items might be Write,

text, or bit mapped files.

Inventory Request The ability to request via the system that

an inventory item be (1) moved to an off site storage facility, (2) retrieved from an off site storage facility, (3) changed from

one media type to another.

Synonym Maintenance The ability to add, change, or delete user

synonyms.

User Profile Maintenance This update function would allow a users

to change information the system stored about them. Such information as phone number, mail stop, spread sheet directory name, and location would be fields a user could change. The function would not allow them to change their user group or

create a new user.

Inquiry Functions

Inventory Retrieval The ability to search and view a document

in inventory. This function is needed to

retrieve items that are not word

processing documents, spread sheets, or

24

presentations. Such items might be Write, text, or bit mapped files.

Reporting Functions

Inventory Detail Reports

The ability to display what items are in inventory by retirement date, or by class, or by age. The purpose of these reports is to help the user (1) re-assign classification codes (if needed), (2) retire inventory items.

Synonym Reports

Listings of the user's synonyms by classification or corporate synonym. The purpose of these reports is to help the users determine which of their synonyms they no longer need.

Department Coordinator Functions

The Department Coordinator would have access to the same functions as the normal user. However, in their stand alone ERS application they would access to these additional functions.

Update Functions

User Maintenance

The ability to add, change, or delete information about a user, the group they belong to, and the classes they can assign to a document.

Inventory Maintenance

The ability to change an inventory item's classification, location, or media. This update function helps the Department Coordinator correct mis-assigned classifications and move inventory items from one location to another.

When changing an inventory items media, this will create a media request. A media request is a note to Information Services that items found on hard disk need to be moved to CD.

Reporting Functions

Inventory Detail Reports

The ability to display what items are in inventory by department and cost center, or by retirement date, or by class, or by media type and age. The purpose of these reports is to help the Department Coordinator (1) retire inventory items, (2) move inventory items from one location to another.

Inventory Count Reports

The ability to count the quantity of inventory items by age, or by department and cost center, or by retirement date, or by classification. The purpose these reports is to help the Department Coordinator (1) understand how many items are

25

inventory and their age, (2) determine if classifications are being properly used, and (3) manage the retirement process.

Center Retention Required

The purpose this report is to display those items in inventory that are approaching the end of their office retention period and starting their center retention period. These inventory items may require a media change and/ or location change. This report would be used to issue inventory requests for media change. This report would help the Department Coordinator manage the logistics of moving records to and from a storage facility.

Classification Audit Reports

The purpose of these reports are to display where classifications may be mis used. The reports should list (1) the documents assigned classifications that are not approved by the Departmental Coordinator for application by the user, and (2) the documents only assigned a major classification.

Inventory Requests Report

The purpose of this report is to display the documents that need to be (1) placed in a off site storage facility, (2) retrieved from an off site storage facility, and/or (3) under go a media change. This report would help the Departmental Coordinator manage the logistics of moving records to and from a storage facility.

Static Table Listings

The ability to list the contents of various static tables such as record type, sensitivity codes, retention start codes, synonyms, classes, users, user groups, organization structure, media types, and locations.

Information Services Functions

The Information Services organization needs some of the same functions of the Department Coordinator, but not all. Information Services needs to be able to maintain inventory locations and media. They will also need the same inventory reports and media life reports available to the Department Coordinator. In addition, the following functions would be available to only Information Services users.

Update Functions

There are several update functions that only Information Services personnel would use. These functions are described below.

Database Definition

The purpose of this function is to describe the various ERS databases that may be at an organizations and their addresses.

26

Function Maintenance The purpose of this update is to record what

functions are in the system, which tables or database objects they access, which user groups can run them. This update would also maintain how a report is sorted and what columns can be

used in its selection criteria.

Batch Functions

The following functions are intended to run once a day in the evening hours. The overall purpose of these functions is to keep the various ERS servers in sync with one another and healthy.

Function Usage Maintenance ERS will record who is running what, when, and

for how long. This usage activity can create a large volume of data in a short period of time. For this reason, there will be a batch job available to remove usage activity prior to a certain date. In this fashion, the Records Manager can select to keep usage information for only one quarter, for

example.

Security Grants The purpose of this batch job would be to re-do

all the security grants on all the database objects (tables, view, etc.) to match what is defined in the function and user group tables. This batch job would be run during implementation of a new

release of ERS

Records Manager Functions

The Records Manager would have access to all the functions available to the normal user and the Department Coordinator. However, the Records Manager would have access to the following additional functions in their stand alone ERS application.

Update Functions

Class Maintenance Add, change, or delete information about

classifications, abstracts, and retention schedules.

Synonym Maintenance Add, change, and delete synonyms used

corporate wide. These synonyms are also referred to as keywords and official terms.

Static Table Maintenance Add, change or delete rows from any of the

application's static tables. Static tables would include record type. sensitivity codes, retention start codes, synonyms, classes, users, user groups, companies, departments, and cost centers, media types, buildings, aisles, and

locations, etc.

27

Reporting Functions

Class Availability Report Display a list of classifications available and applied

by company, departments, cost centers, and user.

The purpose of this report is to determine if

departments are potentially mis-using

classifications.

Function Usage Reports List the system function number, title, and the

quantity of times it was accessed by department, cost center, and user. The purpose of this report is to support a activity analysis or charge back.

Data Dictionary Reports Database columns definitions by column name and

table name. The purpose of these reports is to educate the record manager and developers as to

what is stored in the database and where.

Catalog of Functions

The purpose of the catalog of functions is to display a summarized list of all the update and reporting capabilities of the system by type, subject, name, and description.

Reports	Class	ERS110 ERS120 ERS130	Class Authority Report. Class Usage Report. Classification Audit Report.
	Dictionary	ERS150	Data Dictionary Report.
	Function	ERS210 ERS220 ERS230 ERS240	Function Usage Report. Function/Object Relationship. Function/Column Relationship. Function/Sort Relationship.
	Inventory	ERS250 ERS255 ERS260 ERS265 ERS270 ERS275	Center Retention Required. Inventory Detail Report. Inventory Count Report. Inventory Request Report. Inventory Retirement Required. Inventory Retrieval.
	Synonym	ERS310	Synonym Report.
	User	ERS340 ERS350	Group Function Access Report. User Class Access Report.
	Tables	ERS410 ERS415 ERS420 ERS425 ERS430 ERS435 ERS440 ERS445 ERS450	Location Report. Location Type Report. Media Type Report. Organization Report. Organization Type Report. Record Type Report. Retention Reference Report. Retention Start Report. Sensitivity Report.
Batch	Function	ERS510	Function Usage Maintenance.
	Inventory	ERS520	Inventory Statistics Maintenance.
	Security	ERS510	Grant Creation.
Update	Class	ERS610	Class Maintenance.
	Function	ERS650	Function Maintenance.
Update	Inventory	ERS710 ERS720 ERS730 ERS730	Inventory Entry. Inventory Maintenance. Inventory Re-Classification. Inventory Request.
	Synonym	ERS750 ERS760	Keyword Maintenance. Synonym Maintenance.
	User	ERS810 ERS820	User Maintenance. User Profile Maintenance.
	Tables	ERS905 ERS910	Database Definition. Location Maintenance.

PCT/US97/17004

29

		ERS915 ERS920 ERS925 ERS930 ERS935 ERS940 ERS945	Location Type Maintenance. Media Type Maintenance. Organization Maintenance. Organization Type Maintenance. Record Type Maintenance. Retention Reference Maintenance. Retention Start Maintenance.
		ERS950	Sensitivity Maintenance.
Utilities	Inventory	ERS010 ERS020 ERS030	Application Package, File Open. Application Package, File Close. Application Package, File Save.

30

Generic Description of All Function and Features

The purpose of this section of the document is to describe, in a generic fashion, what the system will be able to do. This section defines the functions and features of the application.

Any system is made up of functions. Functions are software that produce menus, reports, updates, interfaces, and utility activities. Features are the capabilities of each function. For example, reporting functions have the capability to output their information to the screen, the printer, or to an extract file for easy entry into a spread sheet. These output routing capabilities are all features of a reporting function.

Menu Functions

The purpose of menus is to provide access to all other functions of the system. Pull down menus are placed at the top of each window. The features of all menus are described below:

Function Access

All menus will provide access to the various functions of the system. An example of the pull down menus and their options would be the following:

```
File
       New
       Open
       Delete
       Close
       Print
       Printer Setup
       Exit
Edit
       Undo
       Cut
       Copy
       Paste
       Clear
       Find
       Go To
       Search
       Sort
       Filter
View
       First Page
       Prior Page
       Next Page
       Last Page
       Toolbars
       Date and Time
Maintenance
       Update 1
       Update 2
```

Etc.

31

Reports

Report 1 Report 2

Etc.

Window

Tile
Layered
Cascade
Arrange Icons
Window 1
Window 2

Etc.

Help

Contents

Search for Help on How to Use Help

About ERS

Micro Help

As a user points to a menu option and holds the left mouse button down, they will see a one line description of that menu option at the bottom of the window.

Button Bar

A bar of push buttons will be located just below the menu at the top of the window. The push buttons will contain icons symbolizing frequently used functions or menu options. Thereby a user can access a function one of two ways. The first method is by pulling down the appropriate menu and clicking on the option desired. The second means of accessing a function would be to click on the icon for the function found on the button bar.

Disabled Functions

The pull down menus will show all functions planned for the application at all times. However, some of the functions will appear in gray letters. These will be the functions that are not completed and are not available for use. As the system development effort continues, more and more of these functions will be enabled and will appear in black letters. In this fashion, a user can see all the functions of the system, and what is available for use today.

User Access

The functions an individual user can access will depend upon the level of security. Certain users will have all of their menu options enabled, others will not. The functions each user can access will be assigned by the Records Manager.

Reporting Functions

Reports are functions used to output information. Reporting functions can produce output in tabular listings, graphs, or spread sheets formats. This output can be sent to the screen, a printer, or a file directory. The features of reporting functions are the following:

Custom Sub Heading The user will have the option to create their own report

sub heading that will appear at the top of each page. The sub heading can be used to document the items selected

or their purpose for running the report.

Selection Criteria The user will have the ability to limit the size of the

report. They will be able to select one or more columns on the report and state what values they would like to have retrieved for those columns. For example, if department number is a column on a report, then a user will be able to state which departments should appear on

the report.

For inventory related reports, users will have the ability to do string search on the title and description of items.

Variable Sorting Each report can have more than one method of sorting.

The user will have the ability to select, from a pre-set list,

how the information should be sorted.

Routing of Output Each report can be routed to one of three different places.

The report can be viewed on the screen, sent to a printer, or placed in comma delimited file. The comma delimited file can be read by Lotus or Excel spread sheet software.

Report Footing On the last page of each report will be displayed the sort

sequence and selection criteria used to create the report. In this fashion, the reader of the report will know that the report may not contain all the information in the system.

Print After View Every report routed to the screen will have the ability to

be printed. This feature will allow the users to view the first several pages of a report, and then print it, if they

desire.

Micro Help Every object of the window used to specify report sub-

headings, selection criteria, sorting, and routing will have a help message associated with it. The help message will offer a one line description of the object.

Usage Tracking Just prior to exiting a reporting function, the system will

post to the database the name of the reporting function run, rows retrieved, the user's ID, date, and time. In this fashion, tracking of reporting function usage and charge

back activities can be supported.

Update Functions

Update functions provide the ability to add, change, or delete records in the database. The features of update functions are the following:

Add, Change, Delete A single update function will allow the user to add new records, change existing ones, or delete records from a

33

table. The user will not have to select three different update functions from a menu to maintain one table.

Point and Shoot

The user will not have to know key field values such as department numbers, building numbers, or document numbers. In each update function, they will be shown a list of records that can be updated. Then, they can point to an existing record to change it, or delete it. By displaying a list of existing records in a table first, the user can scroll through them and decide which one they would like to update.

Drop Down Lists

The user will not have to memorize codes to operate update functions. If a code field value is asked for on a data entry window, it will be displayed in a drop down list box along with its description. For example, if a user must input an cost center number, then they will be given a drop down list box containing cost center number and names to choose from.

Drag and Drop

Where ever possible, ERS will allow the user to drag an object on to a command button to signal that they wish to perform the command.

Jumping

If several windows are used to collect all the data being entered into a table or group of tables, then the user will have the ability to jump from one window to another. For example, an update function could consist of three windows. The first could be a list of documents to update. The second window could be all the descriptive information about the document. The third window could be used to input key words or phases about the document. The user would not be forced into going from the first, to the second, and then to the third window. They would be given push buttons to jump from the first window to the third, and from the third to the second window. In this fashion, the user would not be forced into traversing through several windows in a pre-set pattern to enter the data.

Validation

Each field will be validated at the time the user moves the cursor from one field to another on a data entry window. This will prevent the user from entering several fields of erroneous information before realizing that any of it is wrong.

Referential Integrity

All update functions will use referential integrity rules. These rules will prevent deletion of code values being used else where in the system. For example, a user will not be able to delete a department number from the department table if it is being used to describe a document in the inventory table.

Confirmation

At the bottom of each data entry window, in an update function, would be several push buttons. These buttons would be used to signal the computer to write the

34

transaction out to the database, or cancel the transaction. Each time one of these buttons is pressed, the user will see a message a the bottom of the window confirming the computer's actions.

Micro Help

Each object and field in a data entry window will have a help text associated with it. This one line of help message will appear at the bottom of the screen when the object or field is clicked on.

Usage Tracking

Just prior to exiting an update function, the system will post to the database the name of the update function run, the quantity of records processed, the user's ID, date, and time. In this fashion, tracking of update function usage and charge back activities can be supported.

Process Model

The purpose of a business process model is to show the relationship between people, systems, data, office policy and procedures, and documents.

Node Tree Diagrams

A component of a business process model is a node tree diagram. Figure 8 shows the major activities associated with an application. Figures 9 through 11 show the node tree diagrams for ERS.

Database Design

The application will store its information in a set of relational tables. The total size of the database is expected to be approximately 500 Megs of disk space for a 300,000 inventory items. There will be roughly 1,200 total users, about 300 will be activity at any point in time.

Entity Definitions

The nature of each table in the database is described in the following entity definitions.

Entity Name	Entity Definition
Access	The purpose of this entity is to store the access codes and descriptions. Access codes are select, update, insert, and deleted.
Class	The purpose of this entity is to store the all the information about a classification. This information contains classification code, title, retention periods, record type, sensitivity, etc.

Data Dictionary	The purpose of this entity is to store entity,
Data Dictionary	attribute, and physical column information.
	This entity is used to support data
	dictionary reporting.
Function	The purpose of this entity is to store a valid
	list of system functions. System functions
	are window objects such as reports,
	updates, inquiries, interfaces, etc.
Function Column	The purpose of this entity is to store a valid
	list of columns than can be used to limit
	retrieval of a reporting function.
Function Column Last Used	The purpose of the last used function
	column entity is to record the selection
	criteria chosen by a specific user when a
	report was run. This entity supports storing
	the last query parameters applied by a user
Franction DataWindow	for a given report.
Function DataWindow	The number of this entity is to stone a volid
Function Sort	The purpose of this entity is to store a valid list of storing options that can be applied to
	a reporting function.
Function Sort Last Used	The purpose of the last used function sort
Function Soft East Osed	entity is to record what sort sequence a user
	requested the last time they ran a specific
	report. This entity support recalling the last
Entity Name	Entity Definition
Littly Pulle	query for a report and user.
Function Subject	The purpose of this entity is to define what
Tanoton Suejeet	area of interest, for the user, the function
	relates to.
Function Type	The purpose of this entity is to store a valid
Function Type	The purpose of this entity is to store a valid list of function types. Function types are
Function Type	
Function Type	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc.
Function Type Function Usage	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc. The purpose of this entity is to track who
	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc. The purpose of this entity is to track who has accessed a function of the system and
	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc. The purpose of this entity is to track who has accessed a function of the system and when. This entity could be used as a basis
	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc. The purpose of this entity is to track who has accessed a function of the system and when. This entity could be used as a basis for activity analysis and usage charge back
Function Usage	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc. The purpose of this entity is to track who has accessed a function of the system and when. This entity could be used as a basis for activity analysis and usage charge back costing.
	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc. The purpose of this entity is to track who has accessed a function of the system and when. This entity could be used as a basis for activity analysis and usage charge back costing. The purpose of this entity is to store
Function Usage	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc. The purpose of this entity is to track who has accessed a function of the system and when. This entity could be used as a basis for activity analysis and usage charge back costing. The purpose of this entity is to store information about an item in inventory.
Function Usage	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc. The purpose of this entity is to track who has accessed a function of the system and when. This entity could be used as a basis for activity analysis and usage charge back costing. The purpose of this entity is to store information about an item in inventory. The information includes title, date stored,
Function Usage Inventory	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc. The purpose of this entity is to track who has accessed a function of the system and when. This entity could be used as a basis for activity analysis and usage charge back costing. The purpose of this entity is to store information about an item in inventory.
Function Usage Inventory Inventory Abstract	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc. The purpose of this entity is to track who has accessed a function of the system and when. This entity could be used as a basis for activity analysis and usage charge back costing. The purpose of this entity is to store information about an item in inventory. The information includes title, date stored, media, classification, etc.
Function Usage Inventory	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc. The purpose of this entity is to track who has accessed a function of the system and when. This entity could be used as a basis for activity analysis and usage charge back costing. The purpose of this entity is to store information about an item in inventory. The information includes title, date stored, media, classification, etc. The purpose of this entity is to store
Function Usage Inventory Inventory Abstract	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc. The purpose of this entity is to track who has accessed a function of the system and when. This entity could be used as a basis for activity analysis and usage charge back costing. The purpose of this entity is to store information about an item in inventory. The information includes title, date stored, media, classification, etc. The purpose of this entity is to store requests to move inventory from one form
Function Usage Inventory Inventory Abstract	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc. The purpose of this entity is to track who has accessed a function of the system and when. This entity could be used as a basis for activity analysis and usage charge back costing. The purpose of this entity is to store information about an item in inventory. The information includes title, date stored, media, classification, etc. The purpose of this entity is to store requests to move inventory from one form of media to another. For example, request
Function Usage Inventory Inventory Abstract	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc. The purpose of this entity is to track who has accessed a function of the system and when. This entity could be used as a basis for activity analysis and usage charge back costing. The purpose of this entity is to store information about an item in inventory. The information includes title, date stored, media, classification, etc. The purpose of this entity is to store requests to move inventory from one form of media to another. For example, request to move documents from disk to tape.
Function Usage Inventory Inventory Abstract	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc. The purpose of this entity is to track who has accessed a function of the system and when. This entity could be used as a basis for activity analysis and usage charge back costing. The purpose of this entity is to store information about an item in inventory. The information includes title, date stored, media, classification, etc. The purpose of this entity is to store requests to move inventory from one form of media to another. For example, request to move documents from disk to tape. Once the media has been moved, the
Function Usage Inventory Inventory Abstract	list of function types. Function types are used to group functions together. Function types are reports, updates, interfaces, etc. The purpose of this entity is to track who has accessed a function of the system and when. This entity could be used as a basis for activity analysis and usage charge back costing. The purpose of this entity is to store information about an item in inventory. The information includes title, date stored, media, classification, etc. The purpose of this entity is to store requests to move inventory from one form of media to another. For example, request to move documents from disk to tape.

Inventory Statistics	The purpose of this entity is to store the
The volume of the state of the	quantity of items in inventory for each
	class, record type, level one location, and
	month. These statistics can be used to
	determine if classifications are being
	properly applied
Location	properly applied.
Location	The purpose of this entity is to store a valid
	list of locations. Locations can be storage
	areas, buildings, property, shelves, drawers,
Y and The Table	etc.
Location Type	The purpose of this entity is to store valid
	location types. Location types are building,
	floor, aisle, storage area, shelf, property
	number, drawer, etc. The location type
	also denotes what level of the hierarchy the
	location can be found.
Media Type	The purpose of this entity is to stare a valid
	list of media types and descriptions. Media
	are hardcopy, disk, tape, CD, microfiche,
	etc.
Object Identification	The purpose of this entity is to store the last
	identification number assigned to a table.
	For example, the last class identification
	assigned to the class table.
Organization	The purpose of this entity is store a valid
	list of companies, departments, and cost
Entity Name	Entity Definitions
	,
	centers
Organization Type	Centers. The purpose of this entity is to store a walid
Organization Type	The purpose of this entity is to store a valid
Organization Type	The purpose of this entity is to store a valid list of organization types. For example,
Organization Type	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all
Organization Type	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines
Organization Type	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the
	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on.
Organization Type Record Type	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the
	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions.
	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and
Record Type	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational.
	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational. the purpose of this entity is to store a valid
Record Type	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational. the purpose of this entity is to store a valid list of inventory request type codes and
Record Type	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational. the purpose of this entity is to store a valid list of inventory request type codes and descriptions. Inventory request types are to
Record Type	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational. the purpose of this entity is to store a valid list of inventory request type codes and descriptions. Inventory request types are to change media or to move to or from offsite
Record Type Request Type	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational. the purpose of this entity is to store a valid list of inventory request type codes and descriptions. Inventory request types are to change media or to move to or from offsite storage.
Record Type	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational. the purpose of this entity is to store a valid list of inventory request type codes and descriptions. Inventory request types are to change media or to move to or from offsite storage. The purpose of the retention reference
Record Type Request Type	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational. the purpose of this entity is to store a valid list of inventory request type codes and descriptions. Inventory request types are to change media or to move to or from offsite storage. The purpose of the retention reference entity is to store the text of the law or
Record Type Request Type	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational. the purpose of this entity is to store a valid list of inventory request type codes and descriptions. Inventory request types are to change media or to move to or from offsite storage. The purpose of the retention reference entity is to store the text of the law or regulation that governs a set of classes and
Record Type Request Type Retention Reference	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational. the purpose of this entity is to store a valid list of inventory request type codes and descriptions. Inventory request types are to change media or to move to or from offsite storage. The purpose of the retention reference entity is to store the text of the law or regulation that governs a set of classes and their retention periods.
Record Type Request Type	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational. the purpose of this entity is to store a valid list of inventory request type codes and descriptions. Inventory request types are to change media or to move to or from offsite storage. The purpose of the retention reference entity is to store the text of the law or regulation that governs a set of classes and their retention periods. The purpose of this entity is to store a valid
Record Type Request Type Retention Reference	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational. the purpose of this entity is to store a valid list of inventory request type codes and descriptions. Inventory request types are to change media or to move to or from offsite storage. The purpose of the retention reference entity is to store the text of the law or regulation that governs a set of classes and their retention periods. The purpose of this entity is to store a valid list of retention type codes and
Record Type Request Type Retention Reference	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational. the purpose of this entity is to store a valid list of inventory request type codes and descriptions. Inventory request types are to change media or to move to or from offsite storage. The purpose of the retention reference entity is to store the text of the law or regulation that governs a set of classes and their retention periods. The purpose of this entity is to store a valid list of retention type codes and descriptions. Retention types define when
Record Type Request Type Retention Reference Retention Start	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational. the purpose of this entity is to store a valid list of inventory request type codes and descriptions. Inventory request types are to change media or to move to or from offsite storage. The purpose of the retention reference entity is to store the text of the law or regulation that governs a set of classes and their retention periods. The purpose of this entity is to store a valid list of retention type codes and descriptions. Retention types define when a record's retention period begins.
Record Type Request Type Retention Reference	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational. the purpose of this entity is to store a valid list of inventory request type codes and descriptions. Inventory request types are to change media or to move to or from offsite storage. The purpose of the retention reference entity is to store the text of the law or regulation that governs a set of classes and their retention periods. The purpose of this entity is to store a valid list of retention type codes and descriptions. Retention types define when a record's retention period begins. The purpose of this entity is to store a valid
Record Type Request Type Retention Reference Retention Start	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational. the purpose of this entity is to store a valid list of inventory request type codes and descriptions. Inventory request types are to change media or to move to or from offsite storage. The purpose of the retention reference entity is to store the text of the law or regulation that governs a set of classes and their retention periods. The purpose of this entity is to store a valid list of retention type codes and descriptions. Retention types define when a record's retention period begins. The purpose of this entity is to store a valid
Record Type Request Type Retention Reference Retention Start	The purpose of this entity is to store a valid list of organization types. For example, company, department, cost center are all organization type. This entity also defines what level of the organization hierarchy the organization will be found on. The purpose of this entity is to store the valid record types and their descriptions. Valid record types would be official and informational. the purpose of this entity is to store a valid list of inventory request type codes and descriptions. Inventory request types are to change media or to move to or from offsite storage. The purpose of the retention reference entity is to store the text of the law or regulation that governs a set of classes and their retention periods. The purpose of this entity is to store a valid list of retention type codes and descriptions. Retention types define when a record's retention period begins.

Synonym	The purpose of this entity is to store alternative names for a classification. A synonym may be a classification code, a portion of the classification name, or a commonly used alternative to the classification name.
User	The purpose of this entity is to store a list of valid users for the system.
User Class	The purpose of this entity is to store every classification the user has access to and may assigned to documents. The classes are initially set up by the Departmental Coordinator.

Entity Relationship Diagram

Figure 12 is the entity relationship diagram. Its purpose is to provide a high level view of the database and its structure. The diagram shows each table in the system and how it relates to other tables. The solid lines between entities denotes identifying relationships. The dotted lines denotes non-identifying relationships.

Attribute Definitions

Following are the attribute definitions. Attributes are the columns that can be found in each entity or table within the database. The definitions are sorted by entity name and attribute name.

Entity Name	Attribute Name	Attribute Definition
Access	Access Code	User assigned identification code. The access code defines what a user can do to a database object. Access codes are S = Select, U = Update, I = Insert, D = Delete. If a user has an access code of I or D then they can automatically do U or S. If a user has an access code of U then they can also do S.
	Access Description	Long name, description, or title for code. The access description stores the meaning of the access code. For example, insert, update, delete, and select are all descriptions of access codes.
	Last Changed Date	
	Last Changed By	
	Timestamp	
Class	Class Identification	System assigned identification number. The class identification is the unique identifier for the classification. This integer is a system assigned value, not user assigned.

	Abstract	
1	Abstract	Description of classification. The
		abstract is the legal definition of
		the classification.
[Class Code	User assigned identification code.
ļ		The class code is a 10 character
1		user assigned classification code.
1		The first two characters of the
		class code are the major along The
		class code are the major class. The
		third and fourth characters are the
	1	primary class. The fifth and sixth
		characters are the secondary class.
i		Characters 7-8 represent the next
İ		relationship level. Characters 9-10
	1	represent the last relationship
		level.
1	Classification Title	Long name or title for class. The
1		classification title is the name of
<u></u>		the class code.
	Classification Title Extended	Class title and all parent class
		titles. The extended classification
	j	title contains the titles of all the
Entity Name	Attribute Name	
Directy I valific	Attribute Ivaine	Attribute Definition
		parent classifications plus this
		classification's title. For example,
		if this classification code is ACAP,
		then the extended classification
		title is 'Accounting, Payables'.
	Center Retention Months	Quantity of months in offsite
		storage. The center retention
		months is the quantity of months
		an inventory item is held in a
		records center or off site storage
		facility. The office retention plus
		the center retention months equals
		the total retention period for a
		classification.
	Organization Identification	
		System assigned identification
		number. The organization
		identification is the unique
		identification for a company,
		department, or cost center. The
		integer value is system assigned.
		integer value is system assigned, not user assigned. Organizations
		integer value is system assigned, not user assigned. Organizations own users and classifications.
	Created By	integer value is system assigned, not user assigned. Organizations own users and classifications. User ID of person who created the
	Created By	integer value is system assigned, not user assigned. Organizations own users and classifications. User ID of person who created the
	Created By	integer value is system assigned, not user assigned. Organizations own users and classifications. User ID of person who created the class. The created by column
	Created By	integer value is system assigned, not user assigned. Organizations own users and classifications. User ID of person who created the class. The created by column contains the user identification of
	Created By	integer value is system assigned, not user assigned. Organizations own users and classifications. User ID of person who created the class. The created by column

Media Type Code	User assigned identification code for media type. The media type code defines what form the inventory item is stored in. For example, DISK=hard disk, FLOPPY=floppy disk, CD=CD ROM, TAPE=magnetic table, FICH=microfich, PAPER=hardcopy.
Office Retention Months	Quantity of months stored on site. The office retention months is the quantity of months an inventory item is held in an office storage area before it is moved to a long term, off site storage facility. The office retention plus the center retention months equals the total retention period for a classification.
Parent Class Identification	Owning parent classification. The parent class identification is the identification number to the class that owns this one.
Record Type Code	User assigned identification code.

Entity Name	Attribute Name	Attribute Definition
		The record type code defines importance to a classification. For example, I=informational and O=official record types. Inventory items assigned a classification having an official record type can only be deleted by a Department Coordinator.
	Retention Reference	User assigned identification number. The retention reference column is used to store the identification number for the reference document or law governing a set of classes and their retention periods. For example, '26 CFR 1.6001.1' is a document defining how checks ought to stored.
	Retention Start Code	User assigned identification code. The retention start code defines when the retention period of the document starts. The quantity of months an inventory item is held may start when the document first created, or it may start when the document is moved to an off site storage facility.

	16	
	Sensitivity Code	User assigned identification code.
		The sensitivity code defines the
		security associated with a
		classification. For example,
	1	TS=top secrete and
		CO=confidential are sensitivity
Ì		codes.
	Vital Flag	Vital record (Y=yes, N=no). The
		vital flag is a yes/no column
		denoting if the classification
		involves vital documents. Vital
		documents are those records whose
		loss would have a financial impact
}	Lost Changed Data	on the organization.
	Last Changed Date	
	Last Changed By	
	Timestamp	
Data	Entity Name	Entity or long table name. The
Dictionary		name of the entity in the logical
		data model. In most cases, the
		entity name is similar to the long
		name for the table in the database.
	Attribute Name	Attribute or long column name.
		The attribute name from the
Entity Name	Attribute Name	Attribute Definition
Littly Ivaile	Attribute Name	
		logical data model. In most cases,
		this is the long name for the
		column.
	Attribute Definition	Attribute description or meaning.
		The attribute definition contains
		the description, meaning, or
	<u> </u>	purpose of the attribute.
	Column Name	SQL column name. The column
		name is the physical name for the
		attribute in the SQL database.
	Datatype	SQL column datatype. The
		datatype is the physical format of
		the column in the SQL database.
	Entity Definition	
1	Entity Definition	Entity description or meaning.
		The entity definition contains the
		description, meaning, or purpose
ļ	IN HOW	of the entity.
!	Null Option	SQL null option. The null option
		is a flag denoting if a column must
		always contain data or not. If the
		null option equals 'Yes' then the
		column does not have to contain
		data all the time. If the null option
		is set to 'No' then the column must
		always have data in it.
	User Defined Datatype Name	
		· •
	Last Changed Date	

Evention	Function Number	Ligar assigned identification
Function	Function Number	User assigned identification number. The function number is
		the unique identification of a
		function of the system. Function
		numbers are assigned by
	}	programmers. For example,
]	ERS110 could be a function
1		number assigned to a performance
		report. Function numbers 000 to
	1	099 are utility functions, 100 to
ļ	1	199 are performance or
		management reports, 200 to 299
		are operational reports, 300 to 399
		are audit reports, 400 to 499 are
		static table listings, 500 to 599 are
		user functions, 600 to 699 are
		interface functions, 700 to 799 are
		dynamic table update functions,
		800 to 899 are static table update
		functions, and 900 to 999 are
		administration functions.
	Function Purpose	Description or purpose of function.
Entity Name	Attribute Name	Attribute Definition
Littley Ivaille	7 Ku loute i vane	
		The function purpose is a text
		column defining how the report or
		update screen ought to be applied
		by the user.
	Transfer Calaina Cala	
	Function Subject Code	User assigned identification code.
	Function Subject Code	User assigned identification code. The function subject code defines
	Function Subject Code	User assigned identification code. The function subject code defines what area of interest, for the user,
	Function Subject Code	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For
	Function Subject Code	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT =
	Function Subject Code	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports.
	Function Subject Code	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely
	Function Subject Code	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function
	Function Subject Code	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used
		User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus.
	Function Subject Code Function Title	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The
		User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The function title is the name of the
		User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The function title is the name of the function as it appears at the top of
		User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The function title is the name of the function as it appears at the top of the window or in the menu. For
		User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The function title is the name of the function as it appears at the top of the window or in the menu. For example 'User Maintenance' is a
	Function Title	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The function title is the name of the function as it appears at the top of the window or in the menu. For example 'User Maintenance' is a function title.
		User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The function title is the name of the function as it appears at the top of the window or in the menu. For example 'User Maintenance' is a
	Function Title	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The function title is the name of the function as it appears at the top of the window or in the menu. For example 'User Maintenance' is a function title. User assigned identification code. The function type code is a way of
	Function Title	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The function title is the name of the function as it appears at the top of the window or in the menu. For example 'User Maintenance' is a function title. User assigned identification code. The function type code is a way of grouping like functions together.
	Function Title	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The function title is the name of the function as it appears at the top of the window or in the menu. For example 'User Maintenance' is a function title. User assigned identification code. The function type code is a way of grouping like functions together. For example R=report, U=update,
	Function Title	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The function title is the name of the function as it appears at the top of the window or in the menu. For example 'User Maintenance' is a function title. User assigned identification code. The function type code is a way of grouping like functions together.
	Function Title	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The function title is the name of the function as it appears at the top of the window or in the menu. For example 'User Maintenance' is a function title. User assigned identification code. The function type code is a way of grouping like functions together. For example R=report, U=update,
	Function Title	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The function title is the name of the function as it appears at the top of the window or in the menu. For example 'User Maintenance' is a function title. User assigned identification code. The function type code is a way of grouping like functions together. For example R=report, U=update, M=menu, T=utility, I=interface are all function type codes. Function types, subject, and titles can be
	Function Title	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The function title is the name of the function as it appears at the top of the window or in the menu. For example 'User Maintenance' is a function title. User assigned identification code. The function type code is a way of grouping like functions together. For example R=report, U=update, M=menu, T=utility, I=interface are all function type codes. Function
	Function Title	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The function title is the name of the function as it appears at the top of the window or in the menu. For example 'User Maintenance' is a function title. User assigned identification code. The function type code is a way of grouping like functions together. For example R=report, U=update, M=menu, T=utility, I=interface are all function type codes. Function types, subject, and titles can be
	Function Title Function Type Code Last Changed Date	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The function title is the name of the function as it appears at the top of the window or in the menu. For example 'User Maintenance' is a function title. User assigned identification code. The function type code is a way of grouping like functions together. For example R=report, U=update, M=menu, T=utility, I=interface are all function type codes. Function types, subject, and titles can be
	Function Title Function Type Code	User assigned identification code. The function subject code defines what area of interest, for the user, the function relates to. For example, MANAGEMENT = management performance reports. The function subject code uniquely identifies subjects. Function subjects, types, and titles are used to build menus. Title or name of function. The function title is the name of the function as it appears at the top of the window or in the menu. For example 'User Maintenance' is a function title. User assigned identification code. The function type code is a way of grouping like functions together. For example R=report, U=update, M=menu, T=utility, I=interface are all function type codes. Function types, subject, and titles can be

Function	Function Number	User assigned identification
Column	†	number. The function number is
		the unique identification of a
	:	function of the system. Function
		numbers are assigned by
		programmers. For example,
l		ERS110 could be a function
		number assigned to a performance
		report. Function numbers 000 to
1		099 are utility functions, 100 to
		199 are performance or
1		management reports, 200 to 299
	1	are operational reports, 300 to 399
		are audit reports, 400 to 499 are
		static table listings, 500 to 599 are
		user functions, 600 to 699 are
		interface functions, 700 to 799 are
		dynamic table update functions,
		800 to 899 are static table update
		functions, and 900 to 999 are

Entity Name	Attribute Name	Attribute Definition
		administration functions.
	Table Name	SQL table name. The table name is the SQL table or view name that will be used as part of a WHERE phrase to limit report retrieval.
	Column Name	SQL column name. The column name is the SQL table or view column name that will be used as part of a WHERE phrase to limit report retrieval. For example, DPT_NBR is the department number column name.
	Column Null Flag	Column contains NULL's, Y=yes, N=no. The column null flag is used to state if the WHERE phrase should be constructed to search for null values for the column. For example, if the column name is DPT_NBR and the column null flag is set to Y=yes, then the WHERE phrase should be WHERE DPT_NBR = NULL.
	Column Title	Long name or title of column. The column title is what the users sees when selecting from a list of columns to use to limit report retrieval. For example, when the user wishes to pick the DPT_NBR column, they would see 'Department Number'.

		LOOK 1. (DATE DIE
	Column Type	SQL datatype (DATE, INT,
		CHAR, FLOAT, YESNO). The
		column type is a code defining the
		columns datatype. For example,
		DATE, INT, CHAR, FLOAT are
		all column types. The column type
		dictates which dialogue box
		appears displaying values for the
		column.
	Relationship Code	Column/value relation (EQUAL,
		LIKE, BOTH). The relationship
		code defines if the relationship in
		the WHERE phase could be an
		equality, a string search, or both.
		For example, if the relationship
		code is EQUAL then the
		relationship between the column
		name and its values in the WHERE
		phrase is IN for character type
		columns, BETWEEN for nun-null
		numeric columns, and = for null
		numeric columns. If the
	A AAA Waada Nigara	Attribute Definition
Entity Name	Attribute Name	
		relationship code is LIKE then the
		relationship between the column
		name and its values is LIKE. If
		the relationship code is BOTH,
		then the user can choose either an
		equality or string search
		relationship.
	Required Flag	Column value required (Y=yes,
		N=no). The required flag denotes
		if the user must use this column to
		limit retrieval. This column helps
		prevent the user from constructing
		a report request that extracts every
		row from the database by forcing
		them to have a WHERE phrase on
		at least one column name.
	Sequence Number	Sort sequence number. The
Į.	}	sequence number is a character
		column used to sort the column
		titles for display on the screen.
		The sequence number allows the
		system to display a list of column
		names in some other sort order
1		besides alphabetically by column
1		title.
	Last Changed Date	
	10	
	Last Changed By	
	Timestamp	

Function	Function Number	Hoor pasioned identify
	1 direction (Author)	User assigned identification
Column Last		number. The function number is
Used		the unique identification of a
		function of the system. Function
		numbers are assigned by
		programmers. For example,
		ERS110 could be a function
		number assigned to a performance
		report. Function numbers 000 to
•		099 are utility functions, 100 to
		199 are performance or
		management reports, 200 to 299
		are operational reports, 300 to 399
		are audit reports, 400 to 499 are
ľ		static table listings, 500 to 599 are
		user functions, 600 to 699 are
		interface functions, 700 to 799 are
		dynamic table update functions.
		800 to 899 are static table update
		functions, and 900 to 999 are
		administration functions.
	Column Name	
		name is the SQL table or view
	Column Name	800 to 899 are static table update functions, and 900 to 999 are administration functions. SQL column name. The column

Entity Name A	Attribute Name	
		Attribute Definition
		column name that will be used as
		part of a WHERE phrase to limit
		report retrieval. For example,
		DPT_NBR is the department
		number column name.
Į	User Identification	Logon user identification. The
		user identification is the SQL
		database name for the user.
		Normally, it is the user's first name
		initial and full last name.
	Table Name	SQL table name. The table name
		is the SQL table or view name that
		will be used as part of a WHERE
		phrase to limit report retrieval.
	Column Value	Column values last used. This text
		column stores the 'right hand side'
		of a SQL WHERE phrase. It
		contains the list of values desired
		for column when a specific report
		was last run by a given user. For
		example, if a user had requested a
		set of departments to appear on a
		report the last time it was run, then
		this column would contain that list
		of departments.
	Operator Code	Code to indicate exact value or list
		of values. Determines whether the
		user can enter a value or select
		from a list of values.

	Last Changed Date	
	Last Changed By	
	Timestamp	
Function DataWindow	Table Name	SQL table name. The table name is the SQL table or view name that will be used as part of a WHERE phrase to limit report retrieval.
	Column Name	SQL column name. The column name is the SQL table or view column name that will be used as part of a WHERE phrase to limit report retrieval. For example, DPT_NBR is the department number column name.
	DataWindow Name	DataWindow Used for selection of column for SQL table.
	Last Changed Date	
	Last Changed By	
	Timestamp	
Function Sort	Function Number	User assigned identification number. The function number is the unique identification of a
Entity Name	Attribute Name	Attribute Definitions
		function of the system. Function numbers are assigned by programmers. For example, ERS110 could be a function number assigned to a performance report. Function numbers 000 to 099 are utility functions, 100 to 199 are performance or management reports, 200 to 299 are operational reports, 300 to 399 are audit reports, 400 to 499 are static table listings, 500 to 599 are user functions, 600 to 699 are interface functions, 700 to 799 are dynamic table update functions, 800 to 899 are static table update functions, and 900 to 999 are administration functions.
	Order By	SQL ORDER BY and/or GROUP BY. The order by column contains the SQL GROUP BY and/or ORDER BY phrase for the report request.

	DataWindow Name	Down D. 11 1 D. WY
	Data window Ivanie	PowerBuilder DataWindow name. The DataWindow name is the name of the PowerBuilder DataWindow name that should be displayed when a particular sort is requested by the user. Different DataWindows are used for different sorts because there may be different subtotaling on the same report depending upon how it is sorted.
	Default Sort Flag	Default sort (Y=yes, N=no). The default sort flag is a yes/no column denoting what sort will be applied to the report if the user does not select one.
	Order By Title	Title or long name of the sort. The order by title is what the user sees when selecting from a list of sort sequences to apply to a report. For example, the order by column value may be ORDER BY CO_NBR, DPT_NBR, CST_CTR_NBR. The order by title would be 'By Company, Department, and Cost Center Numbers'.
	Sequence Number	Sort sequence number. The sequence number column is used
Entity Name	Attribute Name	Attribute Definitions
	Last Changed Date	to sort the order by titles in some other sequence other than alphabetically by order by title.
	Last Changed By	
	Requires Stored Procedure	Required stored procedure name. The purpose of this column is to record the name of any stored procedure required to generate a report output. Some reports, because of their complexity, can not be created without the use of an SQL stored procedure. If a stored procedure is needed, its name would be found in this column.
	Timestamp	

Function	Function Number	User assigned identification
Sort Last	1 unction runner	number. The function number is
Used		the unique identification of a
Osca		function of the system. Function
		numbers are assigned by
		programmers. For example,
⊸ .		ERS110 could be a function
:		number assigned to a performance
		report. Function numbers 000 to
:		099 are utility functions, 100 to
		199 are performance or
		management reports, 200 to 299
		are operational reports, 300 to 399
		are audit reports, 400 to 499 are
		static table listings, 500 to 599 are
		user functions, 600 to 699 are
		interface functions, 700 to 799 are
		dynamic table update functions,
		800 to 899 are static table update
		functions, and 900 to 999 are administration functions.
	Order Py	
	Order By	SQL ORDER BY and/or GROUP BY The order by column contains
l		BY. The order by column contains the SQL GROUP BY and/or
		ORDER BY phrase for the report
		request.
	User Identification	Logon user identification. The
	Osci identification	user identification is the SQL
		database name for the user.
		Normally, it is the user's first name
1		initial and full last name.
	Last Changed Date	
	Last Changed By	
	Timestamp	
Entity Name	Attribute Name	Attribute Definition
Function	Function Subject Code	User assigned identification code.
Subject	- Landing Congress Code	The function subject code defines
		what area of interest, for the user,
		the function relates to. For
		example, MANAGEMENT =
		management performance reports.
		The function subject code uniquely
		identifies subjects. Function
		subjects, types, and titles are used
		to build menus.
	Function Subject Description	Long name, description or title for
		code. The function subject
		description is the long name for the
		subject. For example management
		performance reports, operational
		reports, utility, user functions are
	Lost Changed Data	all subject descriptions.
	Last Changed Date	
	Last Changed By	1

	Timestamp	
Function Type	Function Type Code	User assigned identification code. The function type code is a way of grouping like functions together. For example R=report, U=update, M=menu, T=utility, I=interface are all function type codes. Function types, subject, and titles can be used to build menus.
	Function Type Description	Long name, description, or title for code. The function type description is the meaning of the function type code. For example, report, update, menu, utility, and interface are all function type descriptions.
	Last Changed Date	
	Last Changed By	
	Timestamp	
Function Usage	Usage Start Date	Date/time function started being used. The usage start date is the date and time the update or report was activated.
	Function Number	User assigned identification number. The function number is the unique identification of a function of the system. Function numbers are assigned by programmers. For example, ERS110 could be a function number assigned to a performance report. Function numbers 000 to
Entity Name	Attribute Name	Attribute Definition
		099 are utility functions, 100 to 199 are performance or management reports, 200 to 299 are operational reports, 300 to 399 are audit reports, 400 to 499 are static table listings, 500 to 599 are user functions, 600 to 699 are interface functions, 700 to 799 are dynamic table update functions, 800 to 899 are static table update functions, and 900 to 999 are administration functions.
	User Identification	Logon user identification. The user identification is the SQL database name for the user. Normally, it is the user's first name initial and full last name.

PCT/US97/17004

49

	Rows Processed	Quantity of rows retrieved or updated. The quantity of rows retrieved for a reporting function or the quantity of rows inserted, updated, or deleted for an update function.
	Usage End Date	Date/time function stopped being used. The usage end date is the date and time the function completed processing the rows. The difference between the usage start and end dates is the seconds required to retrieve the report rows or post the changes to the database for an update function.
	Last Changed Date	
	Last Changed By	
	Timestamp	
Inventory	Inventory Identification	System assigned identification number. The inventory identification is the unique identifier for a document. It is a system assigned integer, not user assigned.
	Organization Identification	System assigned identification number. The organization identification is the unique identification for a company, department, or cost center. The integer value is system assigned, not user assigned. Organizations own users and classifications.
	Author	Document written-by user identification. Identification for

Entity Name	Attribute Name	Attribute Definition
		writer of the document. It can be any value.
	Class Identification	System assigned identification number. The class identification is the unique identifier for the classification. This integer is a system assigned value, not user assigned.
	Created By	Logon user identification. The user identification is the SQL database name for the user. Normally, it is the user's first name initial and full last name.
	Original File Name	PC file name and extension. The name of the computer file from which the inventory item originated.

label consists of three columns that appear on the label for the document, file folder, or box. The first label line typically contains a name. For example, vendor name, customer name, person name, etc. for the document. Inventory Label Line 2 Second line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The second label line typically contains a geography. Inventory Label Line 3 Inventory Label Line 3 Third line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identification is the unique identification of the cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code Media Type Code User assigned identification code for media type. The media type	Inventory Label	Line 1 Hirst line of label Till
appear on the label for the document, file folder, or box. The first label line typically contains a name. For example, vendor name, customer name, person name, etc. for the document. Inventory Label Line 2 Second line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The second label line typically contains a geography. Inventory Label Line 3 Third line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code Media Type Code User assigned identification code for media type. The media type	inventory Eager	The state of the office the children of the ch
document, file folder, or box. The first label line typically contains a name. For example, vendor name, customer name, person name, etc. for the document. Inventory Label Line 2 Second line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The second label line typically contains a geography. Inventory Label Line 3 Third line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, contract numbers, employee numbers, entract numbers, employee numbers, etc. System assigned identification identification is the unique identification is the unique identification is the unique identification is the unique within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type.]	appear on the left of three columns that
first label line typically contains a name. For example, vendor name, customer name, person name, etc. for the document. Inventory Label Line 2 Second line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The second label line typically contains a geography. Inventory Label Line 3 Third line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers or dates. For example, part numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code Media Type Code Inventory Label Line 2 Second line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, contract numbers, employee numbers, etc. System assigned identification identification in a storage area. It is a system assigned integer, not user assigned. User assigned identification code for media type. The media type.		appear on the label for the
Inventory Label Line 2 Inventory Label Line 2 Inventory Label Line 2 Second line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The second label line typically contains a geography. Inventory Label Line 3 Inventory Label Line 3 Third line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. System assigned identification number. The location identification is the unique identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code Media Type Code Inventory Label Line 2 Second line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. System assigned identification number. The location identification is the unique identification is the unique identification is the unique identification is the unique identification of the columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, etc. System assigned identification or dates appear on the label for the document, file folder, or box. The typically contains number appear on the label for the document, file folder, or box. The typically contains number appear on the label line typically contains number appear on the label line typically contains number appear on the label for the document, file folder, or box. The typically contains number appear on the label for the document, file folder, or box. The typically contains number appear on the labe		document, file folder, or box. The
Inventory Label Line 2 Inventory Label Line 2 Inventory Label Line 2 Second line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The second label line typically contains a geography. Inventory Label Line 3 Inventory Label Line 3 Third line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. System assigned identification number. The location identification is the unique identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code Media Type Code Inventory Label Line 2 Second line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. System assigned identification number. The location identification is the unique identification is the unique identification is the unique identification is the unique identification of the columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, etc. System assigned identification or dates appear on the label for the document, file folder, or box. The typically contains number appear on the label for the document, file folder, or box. The typically contains number appear on the label line typically contains number appear on the label line typically contains number appear on the label for the document, file folder, or box. The typically contains number appear on the label for the document, file folder, or box. The typically contains number appear on the labe		first label line typically contains a
Inventory Label Line 2 Inventory Label Line 2 Inventory Label Line 2 Inventory Label Line 3 Inventory Label Line 4 Inventory Label Line 4 Inventory Label Line 5 Inventory Label Line 5 Inventory Label Line 6 Inventory Label Line 1 Invent	_	name. For example, vendor name,
Inventory Label Line 2 Second line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The second label line typically contains a geography. Inventory Label Line 3 Third line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, currents order numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		customer name, person name, etc.
inventory label consists of three columns that appear on the label for the document, file folder, or box. The second label line typically contains a geography. Inventory Label Line 3 Third line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		
columns that appear on the label for the document, file folder, or box. The second label line typically contains a geography. Inventory Label Line 3 Third line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type	Inventory Label	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
columns that appear on the label for the document, file folder, or box. The second label line typically contains a geography. Inventory Label Line 3 Third line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification identification is the unique identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		inventory label consists of three
for the document, file folder, or box. The second label line typically contains a geography. Inventory Label Line 3 Third line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		columns that appear on the label
Inventory Label Line 3 Inventory Label Line 3 Third line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		for the document, file folder, or
typically contains a geography. Inventory Label Line 3 Third line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		box. The second label line
Third line of label. The inventory label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		typically contains a geography.
label consists of three columns that appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type	Inventory Label	Line 3 Third line of label. The inventory
appear on the label for the document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		label consists of three columns that
document, file folder, or box. The third label line typically contains numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type	1	appear on the label for the
third label line typically contains numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		document, file folder, or box. The
numbers or dates. For example, part numbers, purchase order numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		third label line typically contains
part numbers, purchase order numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		numbers or dates. For example.
numbers, contract numbers, employee numbers, etc. Location Identification System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		part numbers, purchase order
Location Identification Location Identification System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		numbers, contract numbers.
Location Identification System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		employee numbers, etc.
number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type	Location Identifie	cation System assigned identification
identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		number. The location
identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		
within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		identifier for a shelf or drawer
storage area. It is a system assigned integer, not user assigned. Media Type Code User assigned identification code for media type. The media type		
Media Type Code Media Type Code User assigned integer, not user assigned. User assigned identification code for media type. The media type		
Media Type Code User assigned identification code for media type. The media type		assigned integer, not user assigned.
for media type. The media type	Media Type Cod	e User assigned identification code
		for media type. The media type
code defines what form the		code defines what form the
inventory item is stored in. For		

Entity Name	Attribute Name	Attribute Definition
Entity Name	Record Type Code	Attribute Definition example, DISK=hard disk, FLOPPY=floppy disk, CD=CD ROM, TAPE=magnetic table, FICH=microfich, PAPER=hardcopy. User assigned identification code. The record type code defines
		importance to a classification. For example, I=informational and O=official record types. Inventory items assigned a classification having an official record type can only be deleted by a Department Coordinator.
	Storage Date	Date entered into the Electronic Records System. The storage date is the date and time the inventory item was placed into the system.

	I Carian Codo	Code to flor annuich de communication
	Series Code	Code to flag special documents. A
Ì		10 character code applied by the
		user to help flag documents that
		are special to them.
	System Entry Date	Date Inventory was entered into
		the system. It can never be
		changed.
	Last Changed Date	
	Last Changed By	
	Timestamp	
Inventory	Inventory Identification	System assigned identification
Abstract		number. The inventory
		identification is the unique
		identifier for a document. It is a
		system assigned integer, not user
		assigned.
	Abstract	Long description of inventory
		item. The abstract column
		contains a long textual description
		of the inventory item.
·	Center Retention Months	Quantity of months in offsite
	Conte Recention Mondis	storage. The center retention
		months is the quantity of months
		an inventory item is held in a
		records center or off site storage
		facility. The office retention plus
		the center retention months equals
		the total retention period for a
		classification.
	Office Retention Months	Quantity of months stored on site.
		The office retention months is the
		quantity of months an inventory
		item is held in an office storage
Entity Status	Attribute Name	Attribute Definition
		area before it is moved to a long
		term, off site storage facility. The
		office retention plus the center
		retention months equals the total
		retention period for a
		classification.
	Last Changed Date	
	Last Changed By	
	Timestamp	
Inventory	Inventory Identification	System assigned identification
Request		number. The inventory
request		identification is the unique
		identifier for a document. It is a
		system assigned integer, not user
		assigned.
	User Identification	Logon user identification. The
	Osci identification	user identification is the SQL
		database name for the user.
		Normally, it is the user's first name
		initial and full last name.

Paguact Tymo Codo	
Request Type Code	User assigned identification code. The request type code is a user
	created code to define what needs
	to be done to an inventory item.
	Request type codes are M=Change
	Media, R=Retrieve from storage
<u> </u>	facility, S=sent to storage facility,
	T=Retire inventory item.
Location Identification	System assigned identification
	number. The location
	identification is the unique
	identifier for a shelf or drawer
	within an aisle or file cabinet in a
	storage area. It is a system
	assigned integer, not user assigned.
Media Type Requested	User assigned identification code
	for media type. The media type
	code defines what form the
!	inventory item is stored in. For
	example, DISK=hard disk,
į	FLOPPY=floppy disk, CD=CD
]	ROM, TAPE=magnetic table,
	FICH=microfich,
	PAPER=hardcopy.
Request Date	Date inventory request was
	created. The request date is the
	date and time a user has requested
	date and time a user has requested
	and inventory item be moved from
	and inventory item be moved from one media to another.
Last Changed Date Last Changed By	and inventory item be moved from

Entity Name	Attribute Name	Attribute Definition
	Timestamp	
Inventory Statistics	Class Identification	System assigned identification number. The class identification is the unique identifier for the classification. This integer is a system assigned value, not user assigned.
	Location Identification	System assigned identification number. The location identification is the unique identifier for a shelf or drawer within an aisle or file cabinet in a storage area. It is a system assigned integer, not user assigned.

	Record Type Code	User assigned identification code.
	Record Type Code	The record type code defines
		importance to a classification. For
		example, I=informational and
		O=official record types. Inventory
		items assigned a classification
		having an official record type can
		only be deleted by a Department
		Coordinator.
	Callaction Data	
	Collection Date	Date statistics were collected. The
		date the count of inventory items
		was collected. The quantity of
		inventory items by class and
		record type will be collected once
		a month or once a quarter.
	Inventory Quantity	Quantity of inventory items found.
		The inventory quantity contains
		the number of inventory items
		found for a class and record type at
		a given point in time.
	Last Changed Date	
	Last Changed By	
	Timestamp	
Location	Location Identification	System assigned identification
		number. The location
		identification is the unique
		identifier for a shelf or drawer
		within an aisle or file cabinet in a
		storage area. It is a system
		assigned integer, not user assigned.
	Location Description	Long name, description, or title.
	1	The location description is the
		meaning of a location number. For
		example, 'Third drawer down' or
		'Fourth shelf up' are location
		descriptions.
	Location Number	User assigned identification
L		

Entity Name	Attribute Name	Attribute Definition
		number. The location number is the user assigned identifier for a file cabinet drawer or shelf.
	Location Type Code	User assigned identification code for location type. The location type code is a user assigned code for the type of document storage facility. For example, BL=Building, FA=File area, PR=Property, SH=Shelf, AI=Aisle.
	Parent Location Identification	Parent or owner of location. The parent location identification is the unique identifier for building or file area that owns the location.
	Last Changed Date	

	Last Changed By	
	Timestamp	
Location Type	Location Type Code	User assigned identification code for location type. The location type code is a user assigned code for the type of document storage facility. For example, BL=Building, FA=File area, PR=Property, SH=Shelf, AI=Aisle
	Archive Facility Flag	Archive facility (offsite storage) Y/N flag. The archive facility flag is a yes/no column used to define if the location is found in an archive facility. An archive facility would be an offsite warehouse, for example.
	Location Type Description	Long name or title of location type. The location description is the meaning of the location type code.
	Level Number	Location hierarchy level number. The level number defines what level of the location hierarchy this location can be found. Level one is the top level of the hierarchy and level number five is the bottom.
	Last Changed Date	
	Last Changed By	
	Timestamp	
Media Type	Media Type Code	User assigned identification code for media type. The media type code defines what form the inventory item is stored in. For example, DISK=hard disk, FLOPPY=floppy disk, CD=CD ROM, TAPE=magnetic table,
Entity Name	Attribute Name	Attribute Definition
		FICH=microfich, PAPER=hardcopy.
	Media Type Description	Long name, description, or title. The media type description adds meaning to the media type code. For example, 'Hardcopy' and 'Magnetic Tape' are media type descriptions.

	ERS Express Access Flag	File name required yes/no. The purpose of this column is to record whether a document being entered for a given media type should have a file name entered also. For example, if a document is entered into the system that has a media type of 'hard disk', and the file name required flag is set to 'yes', then the system will prompt the user to input a file name for the document. If the file name required flag is set to 'no' then the system will not prompt the user for a file name when they input information about a document.
	Last Changed Date	
	Last Changed By	
Object	Timestamp Object Name	Name of database abits (c. 1)
Object Identification	Object Name	Name of database object (table or view). The object name is the SQL database name for a table or view.
	Identification	Last system assigned identification number. The identification column contains the last or highest integer value assigned to the identification column in the table. For example, if the table name was tbl_dpt and the identification column contains 145, then the highest identification number assigned thus far to departments is 145.
	Last Changed Date	
	Last Changed By	
	Timestamp	
	Filler 1	This is a character field of 255 bytes used to pad one row in the identification table out to one page long. This technique is use because SQLServer only has page locking, not row locking.
Entity Name	Attribute Name	Attribute Definition
	Filler 2	This is a character field of 255 bytes used to pad one row in the identification table out to one page long. This technique is use because SQLServer only has page locking, not row locking.

	Filler 3	This is a character field of 255
		bytes used to pad one row in the
		identification table out to answer
	1	identification table out to one page
		long. This technique is use
		because SQLServer only has page
	Filler 4	locking, not row locking.
	Times 4	This is a character field of 255
		bytes used to pad one row in the
		identification table out to one page
		long. This technique is use
i		because SQLServer only has page
	T'II 6	locking, not row locking.
	Filler 5	This is a character field of 255
		bytes used to pad one row in the
		identification table out to one page
		long. This technique is use
		because SQLServer only has page
	T:U	locking, not row locking.
	Filler 6	This is a character field of 255
ŀ		bytes used to pad one row in the
İ		identification table out to one page
		long. This technique is use
		because SQLServer only has page
	17:11	locking, not row locking.
Ī	Filler 7	This is a character field of 255
		bytes used to pad one row in the
		identification table out to one page
		long. This technique is use
1		because SQLServer only has page
		locking, not row locking.
	Filler 8	This is a character field of 151
		bytes used to pad one row in the
		identification table out to one page
		long. This technique is use
		because SQLServer only has page
		locking, not row locking.
Organization	Organization Identification	System assigned identification
		number. The organization
		identification is the unique
		identification for a company,
		department, or cost center. The
		integer value is system assigned,
!		not user assigned. Organizations
		own users and classifications.
	Organization Code	User assigned identification code.

Entity Name	Attribute Name	Attribute Definition
		The organization code is a user assigned identification for a company, department, or cost center.

		1
	Organization Name	Long name, description, or title. The organization name is the meaning for the organization code. For example, 'Account Payable', 'Payroll', 'Inside Sales' are all organization names for cost centers.
	Organization Type Code	User assigned organization type code. The organization type code defines if an organization is a company, department, or cost center.
	Parent Organization Identification	Parent owner for organization. The parent organization identification is the unique identification for a company, or department that owns the organization.
	Last Changed Date	
	Last Changed By	
	Timestamp	
Organization Type	Organization Type Code	User assigned organization type code. The organization type code defines if an organization is a company, department, or cost center.
	Organization Type Description	Long name, description, or title. The organization type description is the meaning of the organization type code.
	Level Number	Organization hierarchy level number. The level number defines at what level of the organization hierarchy this organization (company, department, or cost center) can be found. Level number one is the top of the hierarchy and level number five is the bottom.
	Last Changed Date	
	Last Changed By	
	Timestamp	
Record Type	Record Type Code	User assigned identification code. The record type code defines importance to a classification. For example, I=informational and O=official record types. Inventory
Entity Name	Attribute Name	Attribute Definition
		items assigned a classification having an official record type can only be deleted by a Department Coordinator.

	Record Type Description	Long name description and id
	1 tocord 1 ype Description	Long name, description, or title.
		The record type description adds
	Dagard Turna Dragadura	meaning to the record type code.
	Record Type Procedure	Office policy for record type. The
		record type procedure states the
		office policy associated with the
		record type. For example,
		Inventory items assigned a
	Ì	classification having an official
		record type can only be deleted by
		a Department Coordinator'.
	Last Changed Date	
	Last Changed By	
	Timestamp	
Request	Request Type Code	User assigned identification code.
Туре		The request type code is a user
		created code to define what needs
		to be done to an inventory item.
		Request type codes are M=Change
		Media, R=Retrieve from storage
ł		facility, S=sent to storage facility,
		T=Retire inventory item.
	Request Type Description	Long name, description, or title.
	1 31	The request type description
		defines the meaning for the request
		type code.
	Last Changed Date	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Last Changed By	
	Timestamp	
Retention	Retention Reference	User assigned identification
Reference		number. The retention reference
		column is used to store the
		identification number for the
		reference document or law
		governing a set of classes and their
	1	retention periods. For example,
		'26 CFR 1.6001.1' is a document
		defining how checks ought to
		stored.
	Abstract	Long description of reference. The
		abstract column contains a
	-	paragraph about the reference.
		This paragraph states the policy for
		storing a type of document.
	Last Changed Date	storing a type of document.
	Last Changed By	
	Timestamp	
Entity Name	Attribute Name	Attribute Definition
		A Matoute Definition

	I Data and an Carata Carl	Hope agginged identification and
Retention	Retention Start Code	User assigned identification code. The retention start code defines
Start		
		when the retention period of the
		document starts. The quantity of
		months an inventory item is held
		may start when the document first
		created, or it may start when the
		document is moved to an off site
		storage facility.
	Retention Start Description	Long name, description, or title.
	•	The retention start description adds
		meaning to the retention start code.
		It is the office policy stating when
		the retention period begins for a
		document.
	Last Changed Date	
	Last Changed By	
	Timestamp	
Sensitivity	Sensitivity Code	User assigned identification code.
		The sensitivity code defines the
		security associated with a
		classification. For example,
		TS=top secrete and
		CO=confidential are sensitivity
		codes.
	Sensitivity Description	Long name, description, or title.
	Sensitivity Description	The sensitivity description adds
		meaning to the sensitivity code.
<u> </u>	Last Changed Date	meaning to the sensitivity code.
	Last Changed By	
	Timestamp	
Synonym	Synonym Identification	System assigned identification
Synonym	Synonym Identification	number. The synonym
		identification is the unique
		identifier for the synonym. This
		integer is a system assigned value,
		not user assigned.
1	Synonym Name	Name of synonym. The synonym
1		name is the name of the synonym.
		Synonyms are alternate means to
		refer to a classification. Synonyms
		can be class codes, class names, or
		any value the user wishes.
	User Identification	Logon user identification. The
1		user identification is the SQL
		database name for the user.
		Normally, it is the user's first name
		initial and full last name.
	Class Identification	System assigned identification
5	Ciubb Lacinitation	
1	C.abo zacina	number. The class identification is

		1 10
		classification. This integer is a
		system assigned value, not user
		assigned.
	Keyword Flag	Corporate keyword (Y=yes,
		N=no). The keyword flag denotes
		if this synonym is a Corporate
		synonym. All synonyms have to
		be related to a Corporate keyword.
	Last Changed Date	
	Last Changed By	
	Timestamp	
User	User Identification	Logon user identification. The
		user identification is the SQL
		database name for the user.
		Normally it is the year's first
		Normally, it is the user's first name initial and full last name.
	Default Location Identification	
	Detaut Location (uclimication	System assigned identification
		number. The location
		identification is the unique
		identifier for a shelf or drawer
		within an aisle or file cabinet in a
		storage area. It is a system
· · · · · · · · · · · · · · · · · · ·		assigned integer, not user assigned.
	Organization Identification	System assigned identification
		number. The organization
		identification is the unique
		identification for a company,
		department, or cost center. The
		integer value is system assigned,
		not user assigned. Organizations
		own users and classifications.
	Mail Stop	User's mail stop. Physical mailing
•		address of an ERS user in the
		company.
	Output Directory	Directory path for extract files.
!		The output directory is the disk
		drive and directory name where
		the user would like extract files
		placed. If the user elects to have a
		report exported into a spread sheet,
		then the spread sheet will be
	Last Changed Date	placed in the output directory.
	Last Changed By	
11	Timestamp	
User Class	Class Identification	System assigned identification
		number. The class identification is
i		the unique identifier for the
		classification. This integer is a
		system assigned value, not user
		assigned.
Entity Name	Attribute Name	Attribute Definition
		- Italoate Dominion

61

User Identification	Logon user identification. The user identification is the SQL database name for the user. Normally, it is the user's first name initial and full last name.
Access Code	User assigned identification code. The access code defines what a user can do to a database object. Access codes are S = Select, U = Update, I = Insert, D = Delete. If a user has an access code of I or D then they can automatically do U or S. If a user has an access code of U then they can also do S.
Default Class Flag	Default class (Y=yes, N=no). Denotes default class if none is selected.
Last Assigned Date	Date last used. The date and time the class was last assigned by the user to a document. This column can help determine if a user has ever assigned this class to a document.
Last Changed Date	
Last Changed By	
Timestamp	

Logical View

Figure 13 is a logical view of the database. It shows all the entities or tables and their attributes or columns. The purpose of this diagram is to provide a more detailed picture of the database and its contents.

Standard Abbreviations

The following lists the standard abbreviations for database object and column names. Several of these abbreviations will be merged together to derive a name. For example, the user tables will be named 'tbl_usr'. The user's last name column will be called 'lst_nme'.

abs abstract access acc address adr ctr center chg change cd code cost cst cls class column col created cre DataWindow object d

62

db database DataWindow control dw def default description dsc dir directory dte date dur duration end end flg flag fst first function fcn group grp history hst idn identification inventory inv key key lst last location loc logon log mail mail med media mth month nbr number name nme off office obj object ord order organization org out output parent par phn phone password psw procedure pro processed pcs pps purpose record rec relationship rel request rqs require rqr ret retention row rows sensitivity snt sequence seq srt sort start str sts status sto storage stp stop subject sub synonym syn tbl table time tm title tle trigger trg typ udt type user defined datatype

63

usage usg user stored procedure usp user usr vtl vital view vw base view vwb window W word wrd

Triggers

Triggers are business rules embedded in the database. These rules are activated every time a row is added, changed, or delete for a table. They can be used insure referential integrity, enforce security, and/or calculate values for columns. The triggers defined for this system are described below by table. Note, that referential integrity triggers are not listed. They are too numerous to display, but will be part of the application.

Class Table

Insert Trigger - Two rows should be added to the synonym table. The values for the synonym table are as follows:

Row 1

Synonym Name The class code 'SA'

User Identification 'SA

Parent Synonym Name The class code of the parent

classification

Keyword Flag 'Y'

Row 2

Synonym Name The classification title

User Identification 'SA'

Parent Synonym Name The class code

Keyword Flag 'N'

When inserting a row into the class table, add two rows to the class synonym table. The values for the class synonym table should be the following:

Row 1

Synonym Name The class code

User Identification 'SA'

Class Identification The class identification

Row 2

Synonym Name The class title

User Identification 'SA'

Class Identification The class identification

Update Trigger - See if the class code is being changed. If it is, then update the synonym name in the synonym table and the synonym name in the class synonym table.

When updating a row in the class table, see if the class title is being changed. If it is, then update the synonym name in the synonym table and the synonym name in the class synonym table.

When updating a row in the class table, see if the parent classification identification is being changed. If it is, then update the parent synonym name in the synonym table.

Delete Trigger - Delete the corresponding rows in the synonym table and the class synonym table where the following is true:

Synonym name equals class code and user identification equals 'SA' or
Synonym name equals classification title and user identification equal

'SA'

Function Table

Delete Trigger - Create a cascading delete that will remove the function form all other tables.

Update Trigger - If the function type is changed for 'REPORT' to something else, a search for the function column and function sort tables should be performed. If there are any rows in these tables, then they ought to be deleted.

Function Column Table

Insert Trigger - The function type column in the function table must be set to 'REPORT'. If the function is not a report, then it should not have rows in the function column or sort table.

The relationship code can only have values of 'EQUAL', 'LIKE' or 'BOTH'. Also the column type values can only be 'CHAR', 'INT', 'DATE', and 'FLOAT'.

Update Trigger - The relationship code can only have values of 'EQUAL', 'LIKE' or 'BOTH'. Also the column type values can only be 'CHAR', 'INT', 'DATE', and 'FLOAT'.

Function Sort Table

Insert Trigger - There can only be one row having a default sort flag value of 'Y' for yes for each function.

Update Trigger - There can only be one row having a default sort flag value of 'Y' for yes for each function.

Function Usage Table

Insert Trigger - The usage start date must be less than the usage end date.

Update Trigger - The usage start date must be less than the usage end date.

Location Table

Insert Trigger - If the level number for the location type is one, then the parent location identification equals the location identification. If the level number of

65

the location type is not equal to one, then the parent location identification can not be equal to the location identification.

If the level number is not equal to one, then the level number must be equal to one minus the level number for the parent location.

Object Table

Insert Trigger - The object purpose can not be null if the object type code is 'V' for view.

Insert Trigger - The object purpose can not be null if the object type code is 'V' for view.

Object Identification Table

Insert Trigger - Insure that the object type column value in the object table is set to 'U' for user table.

Update Trigger - Insure that the object type column value in the object table is set to 'U' for user table.

Organization Table

Insert Trigger - If the level number for the organization type is one, then the parent organization identification equals the organization identification. If the level number of the organization type is not equal to one, then the parent organization identification can not be equal to the organization identification.

If the level number is not equal to one, then the level number must be equal to one minus the level number for the parent organization.

Update Trigger - If the level number for the organization type is one, then the parent organization identification equals the organization identification. If the level number of the organization type is not equal to one, then the parent organization identification can not be equal to the organization identification.

If the level number is not equal to one, then the level number must be equal to one minus the level number for the parent organization.

User Table

Insert Trigger - When inserting a new user, create rows for the user class table. Copy the user class rows for the person doing the inserting and place them into the user class table for the new user. The processing steps are:

Retrieve the user ID of the individual inserting a new row into the user table.

Take the user ID found in the previous step and read the user class table for the person doing the inserting. Retrieve their set of classifications and access codes.

Insert the classifications and access codes found in the previous step under the ID of the new user.

ارز

Ignore the processing describe above if the user doing the inserting is SA.

Delete Trigger - Create a cascading delete that will remove the user for all other tables.

User Class Table

Insert Table - There can only be one row having a default class flag value of 'Y' for yes for each user.

If an individual is inserting a new row into the user class table, then that individual must have read or write access to that same class. The new row can not have write access to the class if the individual doing the inserting only has read access. Ignore this logic if the person doing the inserting is SA.

Update Table - There can only be one row having a default class flag value of 'Y' for yes for each user.

If the access code is being changed from R=read to W=write then the individual making the change must have write access to that same class. Ignore this logic if the person doing the changing is SA.

User Database Table

Insert Trigger - There can only be one row having a default database flag value of 'Y' for yes for each user.

Update Trigger - There can only be one row having a default database flag value of 'Y' for yes for each user.

User Defined Datatypes

udt_integer

User defined datatypes are common formats that will be applied to columns. The attributes for each datatype in this system are listed below.

integer	System generated identification numbers.
udt_ndt varchar(40)	Names, descriptions and titles 40 chars or less.
udt_name char(20)	First, Last Names, other names 20 chars or less.
udt_label char(25)	Labels.
udt_text varchar(255)	Long descriptions, text, explanations, summaries etc.
udt_identifier char(20)	Any type of database object identifier.

67

udt_yesno Any yes/no column. char(1) udt_phone Full length phone number - Do not store dashes. char(13) udt_code_a Codes and other data of various lengths. char(1) udt_code_b char(2) udt_code_c char(6) udt_code_d char(8) udt code_e char(10) udt_code_f

Physical Database Model

char(12)

udt_code_g char(15)

The physical database model displays all the SQL attributes about each column in the application. It is the combination of the logical view, abbreviations, triggers, and user defined datatypes. The physical database model is presented in **Figure** 14.

Physical Attributes

The following table displays the SQL attributes (column name, datatype, null option, etc.) for each column being stored.

Entity Name	Attribute Name	Column Name	Alter- nate Key	For- eign Key	Prime Key	Column Datatype	Null Option
Access	Access Code	acc_cd			(PK)	char(1)	NOTNULL
	Access Description	dsc	(AK1)			varchar(40)	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Class	Class Identification	cls_idn			(PK)	int	NOTNULL
Entity Name	Attribute Name	Column Name	Alter- nate Key	For- eign Key	Prime Key	Column Datatype	Null Option
	Abstract	abs				varchar(255)	NOTNULL

<u> </u>	Class Code	cls_cd	(AK1)		_	char(10)	NOTNULL
	Classification Title					varchar(40)	NOTNULL
·····	Classification Title Extended					varchar(40)	NOTNULL
	Center Retention Months	ctr_rtnt_mth	<u></u>			int	NOTNULL
	Organization Identification	org_idn		(FK)		int	NOTNULL
	Created By	cre_by				char(20)	NOTNULL
	Media Type Code	med_typ_cd		(FK)		char(6)	NOTNULL
	Office Retention Months	ofc_rtnt_mt h				int	NOTNULL
	Parent Class Identification	prnt_cls_idn	-	(FK)		int	NOTNULL
	Record Type Code	rec_typ_cd		(FK)		char(1)	NOTNULL
	Retention Reference	rtnt_rfr		(FK)		varchar(40)	NOTNULL
	Retention Start Code	rtnt_str_cd		(FK)		char(2)	NOT NULL
	Sensitivity Code	sntv_cd		(FK)		char(2)	NOTNULL
	Vital Flag	vtl_flg				char(1)	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
<u> </u>	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Data Dictionary	Entity Name	ent_nme			(PK)	varchar(40)	NOTNULL
-	Attribute Name	att_nme			(PK)	varchar(40)	NOTNULL
	Attribute Definition	att_def				varchar(255)	NOTNULL
	Column Name	col_nme				varchar(40)	NOTNULL
	Datatype	dtyp				char(20)	NOTNULL
	Entity Definition	ent_def				varchar(255)	NOTNULL
	Null Option	null_opt				char(20)	NOTNULL
	User Defined Datatype Name	udt_nme				char(20)	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NOTNULL
	Last Changed By	lst_chg_by				char(20)	NOTNULL
	Timestamp	tmestamp				timestamp	NULL
Function	Function Number	fxn_nbr			(PK)	char(8)	NOTNULL
	Function Purpose	prps				varchar(255)	NOTNULL
	Function Subject Code	fxn_subj_cd		(FK)		char(10)	NOTNULL
	Function Title	tle	(AK 1)			varchar(40)	NOTNULL
	Function Type Code	fxn_typ_cd		(FK)		char(1)	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Function Column	Function Number	fxn_nbr		(FK)	(PK)	char(8)	NOTNULL

Entity	Attribute Name	Column	Alter-	For-	Prime	Column	Null Option
Name		Name	nate	eign	Key	Datatype	
	-		Key	Key	<u> </u>		
	Table Name	tbl_nme	<u></u>	(FK)	(PK)	char(20)	NOTNULL
	Column Name	col_nme		(FK)	(PK)	char(20)	NOTNULL
	Column Null Flag	null_flg	ļ		_	char(1)	NOTNULL
	Column Title	tle				varchar(40)	NOTNULL
	Column Type	typ	<u> </u>			char(20)	NOTNULL
	Relationship Code	rel_cd	<u> </u>	ļ		char(6)	NOTNULL
	Required Flag	rqr_flg	ļ			char(1)	NOTNULL
	Sequence Number	seq_nbr				int	NOTNULL
	Last Changed Date	lst_chg_dte	<u></u>			datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Function Column Last Used	Function Number	fxn_nbr		(FK)	(PK)	char(8)	NOTNULL
	Column Name	col_nme		(FK)	(PK)	char(20)	NOT NULL
	User Identification	usr_idn		(FK)	(PK)	char(30)	NOTNULL
	Table Name	tbl_nme		(FK)	(PK)	char(20)	NOTNULL
	Column Value	col_val				varchar(255)	NOTNULL
····	Operator Code	opr_cd				char(2)	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Function DataWindo w	Table Name	tbl_nme			(PK)	char(20)	NOTNULL
	Column Name	col_nme			(PK)	char(20)	NOTNULL
	DataWindow Name	dw_nme				varchar(40)	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst chg_by				char(18)	NULL
······	Timestamp	timestamp			1	timestamp	NULL
Function Sort	Function Number	fxn_nbr		(FK)	(PK)	char(8)	NOTNULL
5011	Order By	ord_by			(PK)	varchar(200)	NOT NULL
	DataWindow Name	dw_nme				varchar(40)	NOT NULL
	Default Sort Flag	dft_srt_flg				char(1)	NOT NULL
	Order By Title	tle				varchar(255)	NOTNULL
	Sequence Number	seq_nbr				int	NOTNULL
	Last Changed Date	lst_chg_dte	T		ſ	datetime	NULL
	Last Changed By	lst_chg_by			1	char(20)	NULL
	Requires Stored Procedure	rqr_usp				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Function Sort Last Used	Function Number	fxn_nbr		(FK)	(PK)	char(8)	NOTNULL
	Order By	ord_by		(FK)	(PK)	varchar(200)	NOTNULL
	User Identification	usr_idn]	(FK)	(PK)	char(30)	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by	Î			char(20)	NULL

Entity	Attribute Name	Column	Alter-	For-	Prime	Column	Null Option
Name		Name	nate Key	eign Key	Key	Datatype	·
	Timestamp	timestamp				timestamp	NULL
Function Subject	Function Subject Code	fxn_subj_cd			(PK)	char(10)	NOTNULL
	Function Subject Description	dsc	(AK1)			varchar(40)	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Function Type	Function Type Code	fxn_typ_cd			(PK)	char(1)	NOTNULL
	Function Type Description	dsc				varchar(40)	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Function Usage	Usage Start Date	usg_str_dte			(PK)	datetime	NOTNULL
	Function Number	fxn_nbr_		(FK)	(PK)	char(8)	NOTNULL
	User Identification	usr_idn		(FK)	(PK)	char(30)	NOTNULL
	Rows Processed	row_prcs				int	NOTNULL
	Usage End Date	usg_end_dte				datetime	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Inventory	Inventory Identification	inv_idn			(PK)	int	NOT NULL.
	Organization Identification	org_idn	(AK1)	(FK)		int	NOTNULL
	Author	athr	(IEI)			varchar(40)	NOTNULL
	Class Identification	cls_idn		(FK)		int	NOTNULL
	Created By	cre_by		(FK)		char(30)	NULL
	Original File Name	orgn_file_n me				varchar(40)	NULL
	Inventory Label Line 1	inv_lbl_ln_ l	(AK1)			char(25)	NOTNULL
	Inventory Label Line 2	inv_lbl_ln_ 2	(AK1)			char(25)	NOTNULL
	Inventory Label Line 3	inv_lbl_ln_ 3	(AK1)			char(25)	NOTNULL
	Location Identification	loc_idn		(FK)		int	NOTNULL
	Media Type Code	med_typ_cd	(AK 1)	(FK)		char(6)	NOTNULL
	Record Type Code	rec_typ_cd	(AK1)	(FK)		char(1)	NOTNULL
	Storage Date	strg_dte	(IE3)			datetime	NOTNULL
	Series Code	ser_cde	(IE2)			char(10)	NOTNULL
	System Entry Date	_sys_ntry_dte				datetime	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NOTNULL
	Timestamp	timestamp				timestamp	NULL
Inventory Abstract	Inventory Identification	inv_idn		(FK)	(PK)	int	NOTNULL

Entity	Attribute Name	Column	Alter-	For-	Prime	Column	Null Option
Name		Name	nate Key	eign Key	Key	Datatype	
	Abstract	abs				text	NULL
	Center Retention Months	ctr_rtnt_mth				int	NOT NULL
	Office Retention Months	ofc_rtnt_mt h				int	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	ist_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Inventory Request	Inventory Identification	inv_idn		(FK)	(PK)	int	NOTNULL
Treducer	User Identification	usr_idn		(FK)	(PK)	char(30)	NOTNULL
-	Request Type Code	rqst_typ_cd		(FK)	(PK)	char(1)	NOTNULL
· · · · · · · · · · · · · · · · · · ·	Location Identification	loc_idn		(FK)		int	NULL
	Media Type Requested	med_typ_cd		(FK)		char(6)	NULL
	Request Date	rqst_dte				datetime	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Inventory Statistics	Class Identification	cls_idn		(FK)	(PK)	int	NOTNULL
Otationes	Location Identification	loc_idn		(FK)	(PK)	int	NOTNULL
	Record Type Code	rec_typ_cd		(FK)	(PK)	char(1)	NOTNULL
	Collection Date	colc_dte			(PK)	datetime	NOTNULL
	Inventory Quantity	inv_qty				int	NULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Location	Location Identification	loc_idn			(PK)	int	NOTNULL
	Location Description	dsc				varchar(50)	NOTNULL
	Location Number	nbr	(AK1)			char(10)	NOTNULL
	Location Type Code	loc_typ_cd		(FK)		char(2)	NOTNULL
	Parent Location Identification	prnt_loc_idn		(FK)		int	NOT NULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Location Type	Location Type Code	loc_typ_cd			(PK)	char(2)	NOTNULL
	Archive Facility Flag	arch_fac_flg				char(1)	NOTNULL
	Location Type Description	dsc	(AK1)			varchar(40)	NOTNULL
	Level Number	lvl_nbr				int	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL.

Entity Name	Attribute Name	Column Name	Alter- nate Key	For- eign Key	Prime Key	Column Datatype	Null Option
	Timestamp	timestamp				timastama	NULL
Media Type	Media Type Code	med_typ_cd	 		(PK)	timestamp char(6)	NULL
	Media Type	dsc	(AKI)	- 	(1 K)		NOTNULL
	Description		(/1111)			varchar(40)	NOTNULL
	ERS Express Acces	ers_expr_acc				char(1)	NOTATI
	Flag	_fig	1			Char(1)	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Object Identification	Object Name	obj_nme			(PK)	char(20)	NOTNULL
	Identification	idn				int	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NOTNULL
	Last Changed By	lst_chg_by				char(20)	NOTNULL
	Timestamp	timestamp			1	timestamp	NOTNULL
	Filler 1	filler_1				char(255)	NOTNULL
	Filler 2	filler_2				char(255)	NOTNULL
	Filler 3	filler_3				char(255)	NOTNULL
· -·	Filler 4	filler_4				char(255)	NOTNULL
	Filler 5	filler_5				char(255)	NOTNULL
	Filler 6	filler_6				char(255)	NOTNULL
	Filler 7	filler_7				char(255)	NOTNULL
	Filler 8	filler_8				char(103)	NOTNULL
Organizatio n	Organization Identification	org_idn			(PK)	int	NOTNULL
	Organization Code	org_cd	(AK 1)			char(10)	NOTNULL
	Organization Name	org_nme				varchar(40)	NOTNULL
	Organization Type Code	org_typ_cd		(FK)		char(2)	NOTNULL
	Parent Organization Identification	prnt_org_idn		(FK)		int	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Organizatio n Type	Organization Type Code	org_typ_cd			(PK)	char(2)	NOTNULL
	Organization Type Description	dsc	(AK1)			varchar(40)	NOTNULL
	Level Number	lvl_nbr				int	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Record Type	Record Type Code	rec_typ_cd			(PK)	char(1)	NOTNULL
	Record Type Description	dsc				varchar(40)	NOTNULL
	Record Type Procedure	pcdr				varchar(255)	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL

Entity Name	Attribute Name	Column Name	Alter- nate Key	For- eign Key	Prime Key	Column Datatype	Null Option
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp		1		timestamp	NULL
Request Type	Request Type Code	rqst_typ_cd			(PK)	char(1)	NOTNULL
1,400	Request Type Description	dsc	(AK1)			varchar(40)	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Retention Reference	Retention Reference	rtnt_rfr			(PK)	varchar(40)	NOTNULL
	Abstract	abs				varchar(255)	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Retention Start	Retention Start Code	rtnt_str_cd			(PK)	char(2)	NOTNULL
	Retention Start Description	dsc	(AK1)			varchar(255)	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Sensitivity	Sensitivity Code	sntv_cd_			(PK)	char(2)	NOTNULL
	Sensitivity Description	dsc	(AK 1)			varchar(40)	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
Synonym	Synonym Identification	syn_idn			(PK)	int	NOTNULL
	Synonym Name	syn_nme	(AK)			varchar(40)	NOTNULL
	User Identification		(AK)	(FK)		char(30)	NOTNULL
	Class Identification	cls_idn	(AK)	(FK)		int	NOTNULL
	Keyword Flag	key_wrd_flg				char(1)	NOTNULL
	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by	<u> </u>			char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
User	User Identification		<u> </u>	(FK)	(PK)	char(30)	NOTNULL
	Default Location Identification	loc_idn		(FK)		int	NOTNULL
	Organization Identification	org_idn		(FK)		int	NOTNULL
	Mail Stop	mail_stop				char(10)	NULL
	Output Directory	out_dir				varchar(255)	NULL
	Last Changed Date	·				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL
User Class	Class Identification	cls_idn		(FK)	(PK)	int	NOTNULL
\	User Identification	usr_idn		(FK)	(PK)	char(30)	NOTNULL

Entity Name	Attribute Name	Column Name	Alter- nate Key	For- eign Key	Prime Key	Column Datatype	Null Option
	Access Code	acc_cd		(FK)		char(1)	NULL
	Default Class Flag	dft_cls_flg				char(1)	NOTNULL
	Last Assigned Date	lst_asgn_dte				datetime	NULL
-	Last Changed Date	lst_chg_dte				datetime	NULL
	Last Changed By	lst_chg_by				char(20)	NULL
	Timestamp	timestamp				timestamp	NULL

System Requirements

The purpose of this section of the document is to define the minimum hardware and software needed to run and maintain the application. This section is divided into three parts; Client Workstation, Developers Workstation, and Server. The requirements defined below assume that there are no other applications running on this equipment at the same time.

Client Workstation

The client workstation is the personal computer run by the average user. Its purpose is to create word processing documents, spreadsheets, presentations, and to run the ERS application.

Hardware

Processor 486/66 MHz processor, or faster. Memory 16 Meg. of memory or more.

Hard Disk 500 Meg. of available disk space or more.

Access to a common network drive containing the

application software.

Monitor VGA color monitor.

Printer Access to a LASER printer, 300 dpi resolution or higher.

Network Card Must be compatible with available cabling, network

software, and PC hardware.

Keyboard Mouse

Software

Operating System Microsoft DOS, release 6.22.

Microsoft Windows for Workgroups, release 3.11. Network Software such as Novell or Windows for

Workgroups.

Application Packages Microsoft Office containing Word, Excel, and

PowerPoint.

Developer Workstation

The developer workstation is used to construct and maintain the application. It contains all the tools needed to modify the source code for the system.

75

Hardware

Processor Pentium 100 MHz processor, or faster.

Memory 24 Meg. of memory or more.

Hard Disk 1 Gig. of available disk space or more.

Access to a common network drive containing the

application software.

CD ROM 4x speed, or faster.

Tape Drive 250 Meg tape backup, or larger.

Monitor 17" VGA color monitor.

Printer Access to a laser printer, 300 dpi resolution or higher.

Network Card Must be compatible with available cabling, network

software, and PC hardware.

Modem 28.8 FAX/Modem, or faster.

Keyboard Mouse

Software

Operating System Microsoft DOS, release 6.22.

Microsoft Windows for Workgroups, release 3.11. Network Software such as Novell or Windows for

Workgroups.

Application Packages Microsoft Office containing Word, Excel, and

PowerPoint.

Microsoft Project, release 4.0.

Development Tools PowerSoft PowerBuilder, release 4.0.4.

MetaSolv PowerFrame, release 4.0.

Norton Deskton for Windows, release 3.0

Norton Desktop for Windows, release 3.0.

Logic Works ERWin for PowerBuilder, release 2.5. Embarcadero Technologies DBArtisan, release 2.02. Embarcadero Technologies Rapid SQL, release 1.02.

Blue Sky Software RoboHelp, release 3.0.

PC Install for Windows 3.X.

Saros Mezzanine Developers Tool Kit.

Saros Document Manager.

Server

The server supports the user community and developers. It acts as the centralized storage point for the system's database and archived documents. The server should support two modems for remote access trouble shooting, demonstrations, and training sessions. The amount of disk space requested should be enough to support two versions of the database.

Hardware

Processor Two Pentium 100 MHz processors, or faster.

Memory 64 Meg. of memory or more.

Hard Disk 1 Gig. of available disk space or more.

Access to a common network drive containing the

application software.

CD ROM 4x speed, or faster.

Tape Drive 250 Meg tape backup, or larger.

Monitor VGA color monitor.

Printer Access to a LASER printer, 300 dpi resolution or higher.

76

Network Card

Must be compatible with available cabling, network software, and PC hardware.

Modem

Two 28.8 FAX/Modems, or faster.

Keyboard Mouse

Software

Operating System

Microsoft Windows NT, release 3.5.

Database Server

Microsoft SQLServer, release 4.2 or higher.

Document Server

Saros Mezzanine Document Server.

The production implementation of ERS will require one server. ERS will have 1,200 total users in one geographic location. 300 of the users will be active at any one point in time ERS is planned to be a 500 Meg database containing 300,000 inventory items.

Clarifications

The purpose of this section of the design document is to clearly state limitations of the system. The items listed below are not planned to be implemented in ERS at the present time. However, there is nothing preventing these functions or capabilities from being added to the application at a later date.

Ad Hoc Reporting

- The menus within the ERS application will not provide access to any ad hoc reporting tools such as InfoMaker by PowerSoft or Microsoft Access.
- Ad hoc reporting tools will not have access the ERS database. User passwords will be encrypted to prevent ad hoc tools from gaining access to the database.
- ERS could be modified to bring up an ad hoc reporting tool from its menu some time in the future, if desired.

Multiple Databases

- ERS will use only one database.
- Only one database is needed. Based upon the size to the database (500 Megs.), the quantity of users (300 active users), and the location of the users (one building) can be supported on one server. For this reason, multiple databases will not be provided, nor will any across database functions be built.
- As the application grows in quantity of users or locations, additional databases can be considered at a later date.

Archive Facility Management

- ERS will track what documents are available and where.
- ERS acts as the pointer to archive facilities. Some these documents will be stored in archive facilities such as off site warehouses or in Mezzanine.
- ERS will not manage the operation of these archive facilities. It will not perform document check in and check out functions, or deliver the document to the user's workstation, for example. These functions will be the responsibility of the archive facility.

77

• In this fashion there will be a division of labor. ERS can do what it is designed to best and the archive facilities can continue to perform what they do best.

Total Control Over All Corporate Information

- ERS will not provide a fully automated means to enroll all of a corporation's information into a records management database. All information implies every eMail message, all application database transactions, telephone conversation, as well as electronic and hard copy documents.
- ERS will not provide an interface into off site storage facility's information system. If the volume of information flowing between an office and a off site storage facility warrants it, an interface could be added later.
- ERS will not provide an interface into eMail systems. The policies on the control and management of eMail messages needs to be established, first, before an interface can be considered.
- ERS will provide a means to easily input hard copy documents, Microsoft Word documents, and Excel spreadsheets into a inventory and to classify these documents.

Glossary

Archive Facility Off site storage of an inventory item or the storage of an

item online in Mezzanine.

Classification The process of assigning a class to a document. A class

determines the record type, retention period, and

sensitivity for the document.

ERS Electronic Records System.

Functions The capabilities of a system are functions. Functions fall

into five types. They are reports, updates, inquires, interfaces, and utilities. System functions are composed

of features.

Informational Record Type The majority of all records can be categorized as

informational records. These records are not covered by

law. They can be originals or copies.

Inventory A document or set of records stored for historical or legal

purposes.

Keyword A corporate created synonym. A synonym not created

by a typical user. They are created by the Records Manger. Keywords can be referred to as official terms.

Media The form a document or record in inventory takes.

Media are hard copy, disk, tape, microfiche, etc.

Official Record Type A small quantity of the total records can be categorized as

official records. These records are always originals and

never copies. Official records are covered by law.

78

Contracts would be an example of official records or documents.

Official Term

A keyword or corporate created synonym.

Organization

A company, department, or cost center.

Record Type

Records have two types; official and informational.

Retention Period

The quantity of months a document is stored for historical or legal purposes. The retention period is determined by the class assigned to a document.

Retirement

The process of destroying a document that has been stored in inventory past its retention period.

Sensitivity

Records have four categories of sensitivity. They range from confidential to secret.

Synonym

A classification code, a portion of a classification name, and commonly used phrase that means the same as the classification name. Synonyms fall into two categories; corporate and user. Corporate synonyms are recognized throughout the organization and can be referred to as keywords or official terms. User synonyms are phrases made up by individual users. User synonyms always children to corporate synonyms.

User

Someone who can access the system.

User Group

A category or set of users all having the same security access to system functions and tables. Four user groups are planned; normal user, Departmental Coordinators, Information Services, and Record Manager.

Vital Attribute Records whose loss would have a financial impact on the organization. Vital record is an attribute of class. It is not a record type.

79

Claims

I Claim:

- 1. A computer implemented method for uniformly classifying documents comprising the steps of:
 - a) assigning to a document to be classified a set of predetermined class codes from a class database, said class codes arranged in a hierarchy from general to specific;
 - b) assigning a retention period to said document;
 - c) storing the class code and retention period assigned to said document as part of a record in a document database.
- 2. The method defined by Claim 1 wherein each of said class codes is selected from terms used in business and government.
- 3. The method defined by Claim 1 further comprising the steps of:
 - a) assigning to said document a document type;
 - b) storing the document type assigned to said document as part of said record in said document database.
- 4. The method defined by Claim 3 wherein said assigned retention period is based upon the class code and document type assigned to the document.
- 5. The method defined by Claim 3 wherein said document type is one of official, informational, vital and sensitive.
- 6. The method defined by Claim 1 further comprising the steps of:

- a) assigning to said document a media type and location;
- b) storing the media type and location assigned to said document as part of said record in a document database.
- 7. The method defined by Claim 1 wherein at least one of said class codes has at least one associated synonym stored in a synonym database.
- 8. The method defined by Claim 1 further comprising the steps of:
 - a) searching said document database by class code and
 - b) generating a display showing matching records.
- 9. The method defined by Claim 7 further comprising the steps of:
 - a) receiving a term as search parameter; and
 - b) searching said document database using said search parameter by class code and generating a display showing records in said document database where said search parameter matches the class code, and if no matching records are found, searching said synonym database and generating a display showing records in said document database having a class code associated with a synonym which matches said search parameter.
- 10. The method defined by Claim 7 wherein said synonym database is customizable at a user workstation for use by a user at said user workstation.
- 11. The method defined by Claim 9 further comprising the step of:
 - assigning to said document a document access code specifying permitted user access based on at least one of a chart of accounts and an organization chart;

81

- b) stored the access code in said document database;
- c) assigning to a user a user access code based on said user's position within at least one of said chart of accounts and said organization chart;
- d) preventing said user from accessing records in said document database which do not have a document access code which matches said user's user access code.

	Electronic Records S	vstem
File Edit V	iew Window Help	
2.31,00	Inventory Entry [ERS	030A]
Series Code:		ОК
Title: (Name) (Geogr aphy)	JOHN B. DOE TRAVEL RE XX PROJ. 1/96 2:36:01 PM	Cancel Synonyms
Entry Date:	8/22/96 2:36:01 PM	
Class Code:	ACPAEM	Classes
Record Type:	Official	Single AddContinuous AddSimilar Continuous Add
Media Type:	Paper	
Location:	First Drawer, Top	Locations
File Name:		
Author	McIntosh Lowrie	Authors
Organization:	INFOLOGICS, INC. (ILI)	Organizations
Entered By:	Lowrie	
Ready		

Figure 1

Electric Records System Window **Help** Veiw **E**dit **File** Synonym Update List [ERS750A] Class Code **Extended Class Title Synonym Name** AC **Accounting** Bean Counter **ACCOUNTING INVOICES ACIN** BILLS, STATEMENTS LEGAL PATENTS/TRADEMARKS LEPA **BLAKELY SOKOLOF** ADM, REC. MGMNT., FORMS MGT. **ADREFO** BUDGET FINANCE, BUDGET **FIBU** BUDGET ADMINISTRATION **ADREFO** CALENDAR LEGAL CONTRACT / AGREEMENTS LECO CONTRACT LECO LEGAL CONTRACT / AGREEMENTS **EMPLOYEE** LEGAL PATENTS/TRADEMARKS **ERIC HYMAN** LEPA **OPCL OPERATIONS ERS IV** ACCT, ADJ, INVENTORY, WAREHOUSE ACAJITWH **GREEN SHEET ADMIN, EDP INFORMATION SYSTEMS** ADDP **HARDWARE OPERATIONS OPCL** KAISER Ready

Electric Records System Veiw **W**indow Help **Edit File Inventory Request Update [ERS740B]** Enter your search criteria to select documents Search Classes... HRJD Cancel Syn.. Class Code: Equals Reset JOB DESCRIPTION OR. Title: Contains V Less... JOB OR. V Authors... Author: Equals INFOLOGICS, INC Organizations Organization: **Equals** Locaations. Location: **Equals** Paper Media Type: Equals Record Type: **Equals** Official Entered by: Lowrie **Equals** Calandar Calandar 8/22/96 Equals Entry Date: JOB DESCRIPTION Series Code: Equals

Ready

Figure 3

RECTIFIED SHEET (RULE 91)

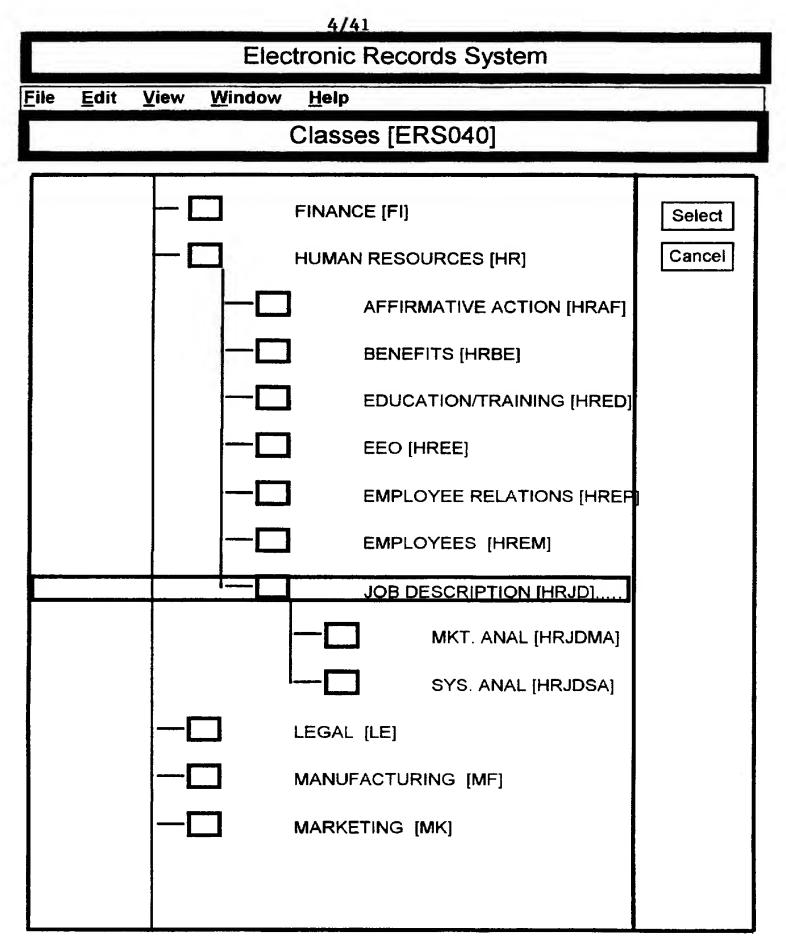


FIGURE 4

RECTIFIED SHEET (RULE 91)

Ready

	Electronic Records Sys	tem					
File Edit V	iew Window Help						
	Inventory Entry [ERS 030A]						
Series Code:		OK					
Title: (Name) (Geogr aphy)	BUDGET DATA MARKETING DEPT 1996 (Sample Data)	Cancel Synonyms					
Entry Date:	8/22/96 11:10:47 am						
Class Code:	FIBU	Classes					
Record	Official	□ Single Add □ Continuous Add					
Media Type:	Paper	□ Similar Continuous Add					
Location:	First Drawer,Top(B249901)	Locations					
File Name:							
Author	McIntosh Lowrie	Authors					
Organization:	INFOLOGICS, INC. (ILI)	Organizations					
Entered By:	Lowrie						
Ready							

Figure 6

7/41

Electronic Records System

File Edit View Window Help

Inventory Update [ERS 720A]

Inventory ID	Inventory Label	Senes Code	Class	Author/ Entered by	Organization Location
	BUDGET PREP DEPARTMENT FORMS 1995-6		ADREFO	lowrie	INFOLOGICS, Inc.
5217	BUDGET DATA MARKETING DEPT 1996		FIBU	lowne	INFOLOGICS, Inc.
5216	BUDGET DATA-work sheets MARKETING DEPT 1996 (sample data)		FIBUWS	lowrie	INFOLOGICS, Inc.
5213	Manager, Budget Planning Job Description Aug. 1996		HRJD	lowrie	INFOLOGICS, Inc. [D3470104]
4694	BUDGETING PRINCIPLES & PRACTICE H C HEISER 1959		ADLY	lowrie	INFOLOGICS, Inc. Bottom Glass Shelf

Changes saved to database...

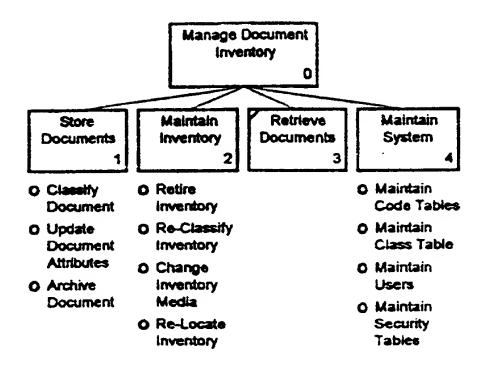


Figure 8

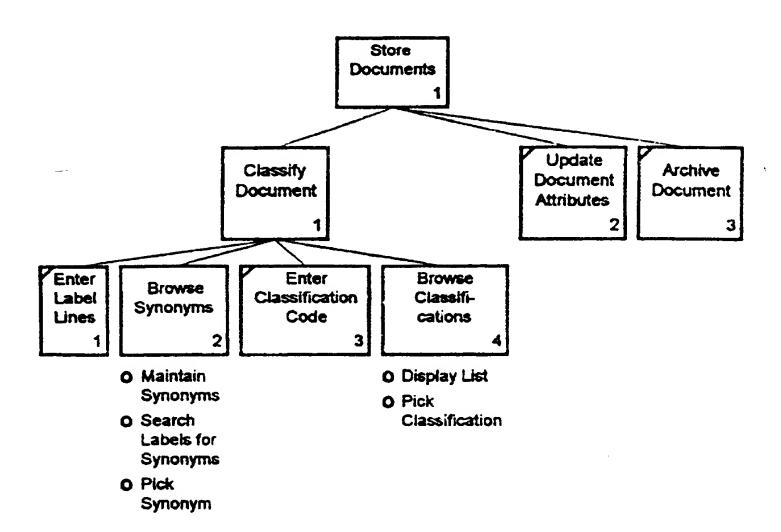


Figure 9

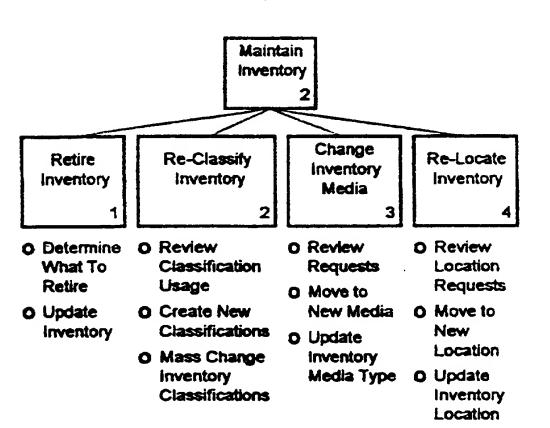


Figure 10

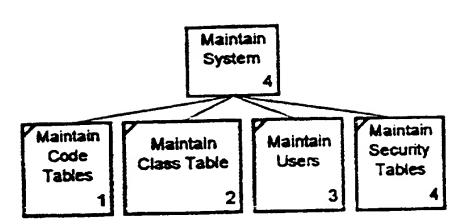


Figure 11

Fig 12A	Fig 12B	Fig 12C
Fig 12D	Fig 12E	Fig 12F

Fig. 12

Fig 13A	Fig 13B	Fig 13C	Fig 13D
Fig 13E	Fig 13F	Fig 13G	Fig 13H
Fig 13l	Fig 13J	Fig 13K	Fig 13L

Fig. 13

Fig 14A	Fig 14B	Fig 14C	Fig 14D
Fig 14E	Fig 14F	Fig 14G	Fig 14H
Fig 14I	Fig 14J	Fig 14K	Fig 14L

Fig. 14

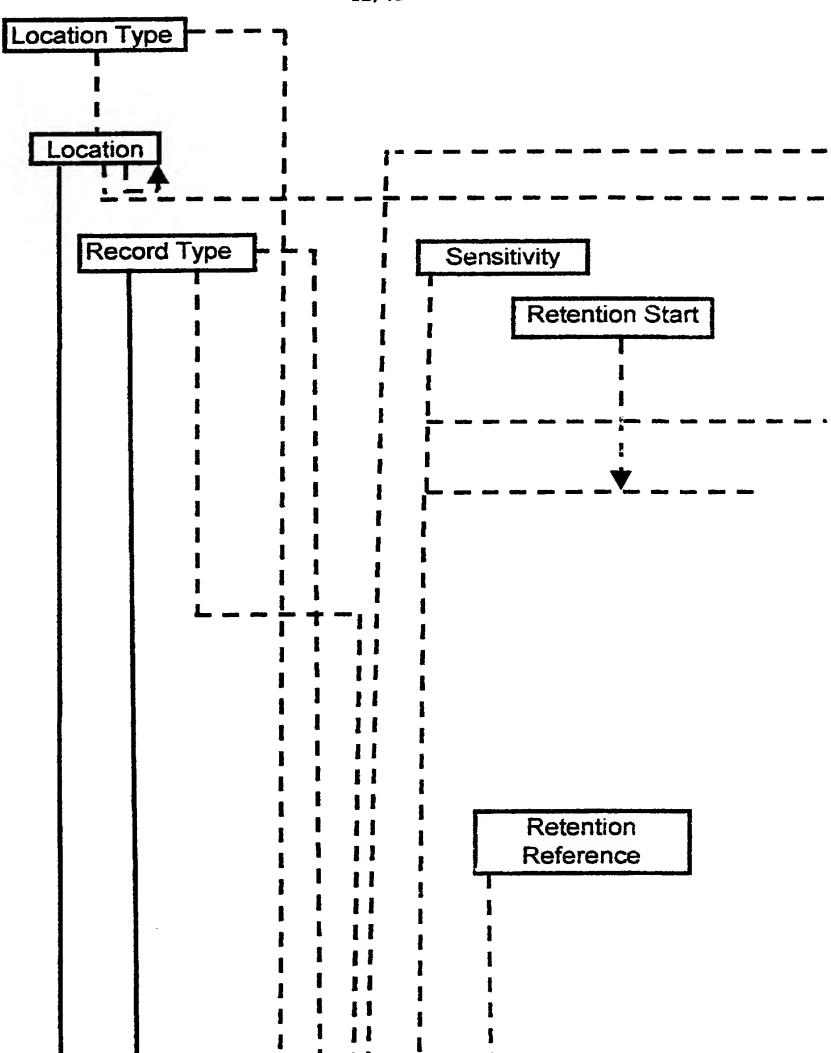


Fig 12A

RECTIFIED SHEET (RULE 91)

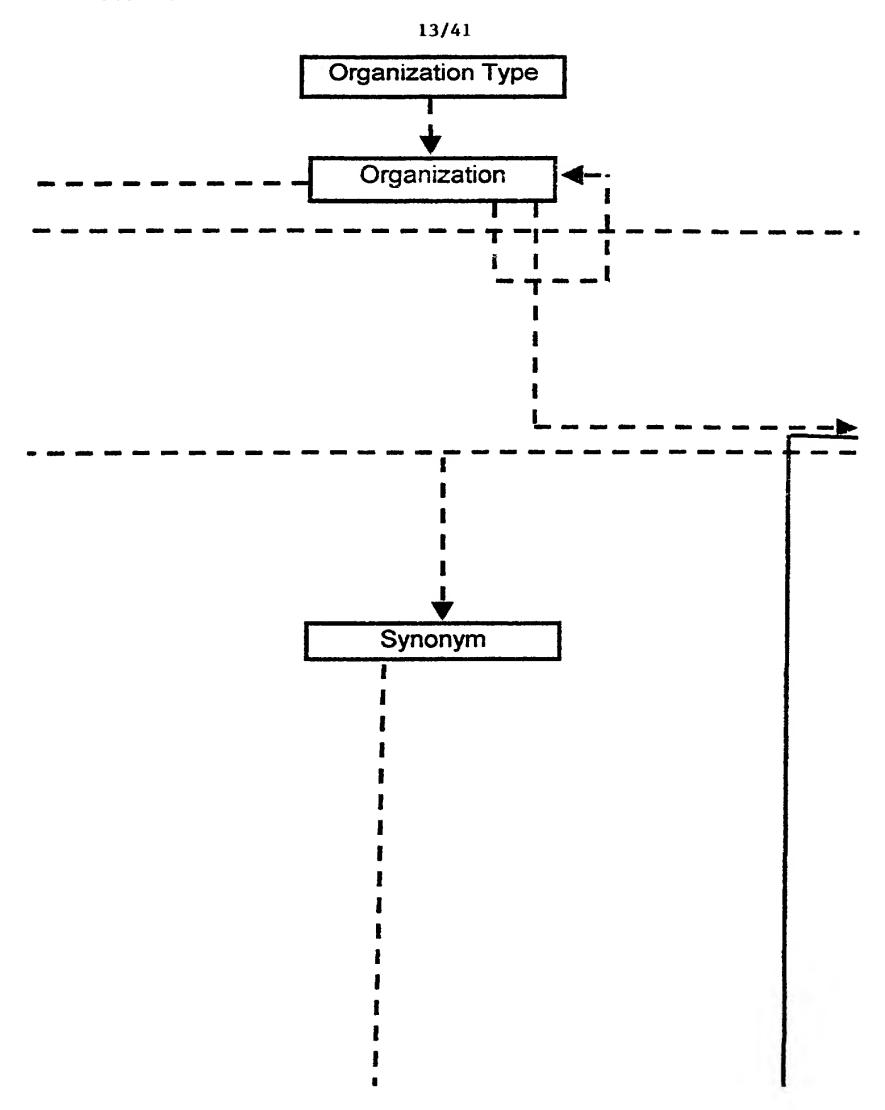


Fig 12B

RECTIFIED SHEET (RULE 91)

14/41

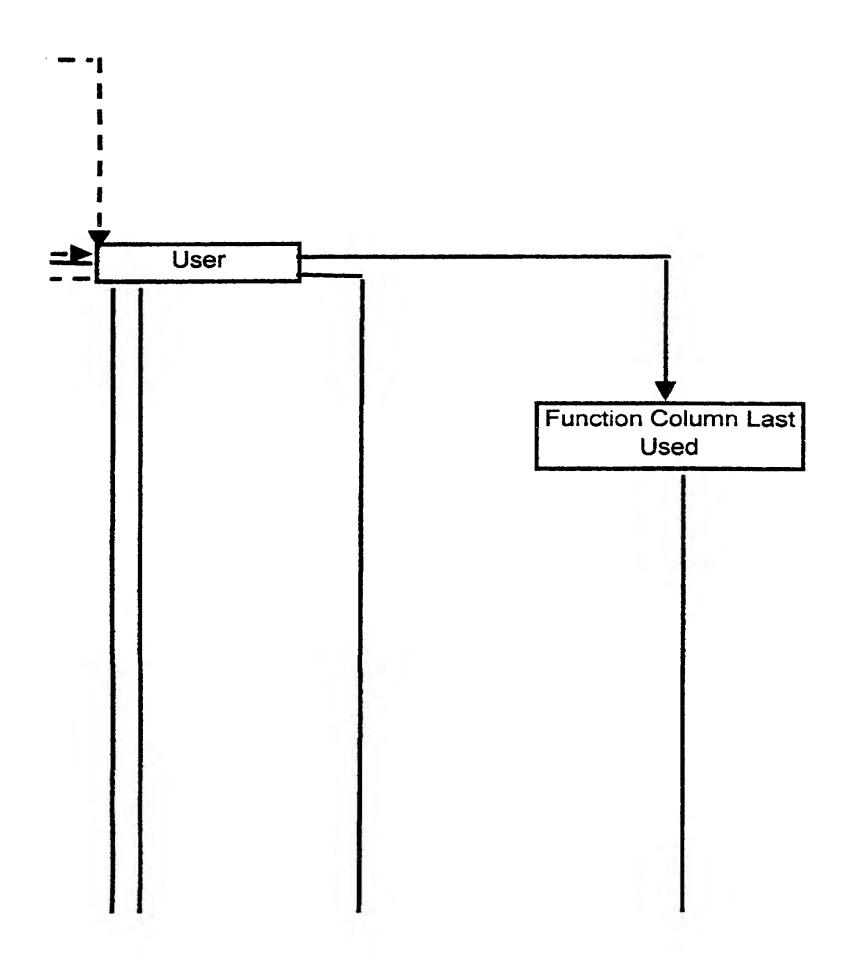
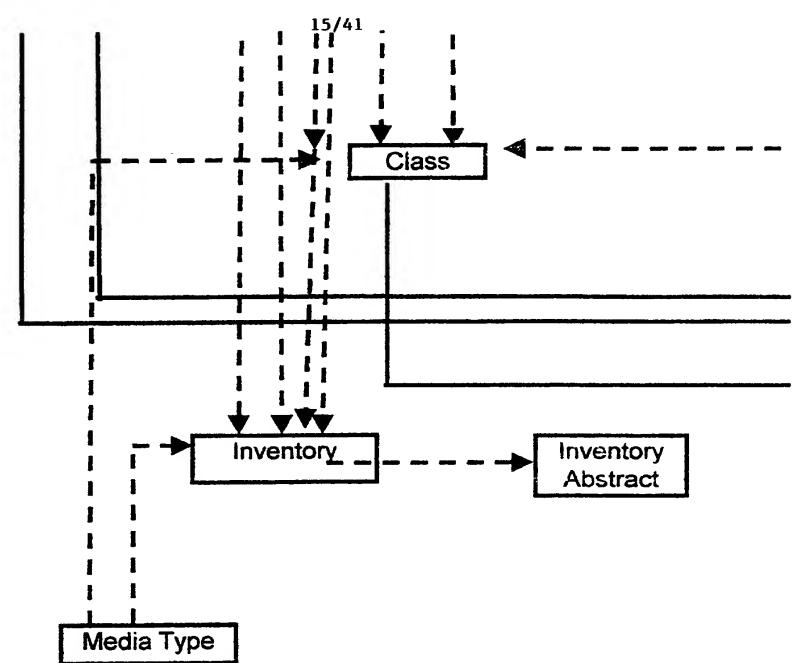


Fig 12C

RECTIFIED SHEET (RULE 91)



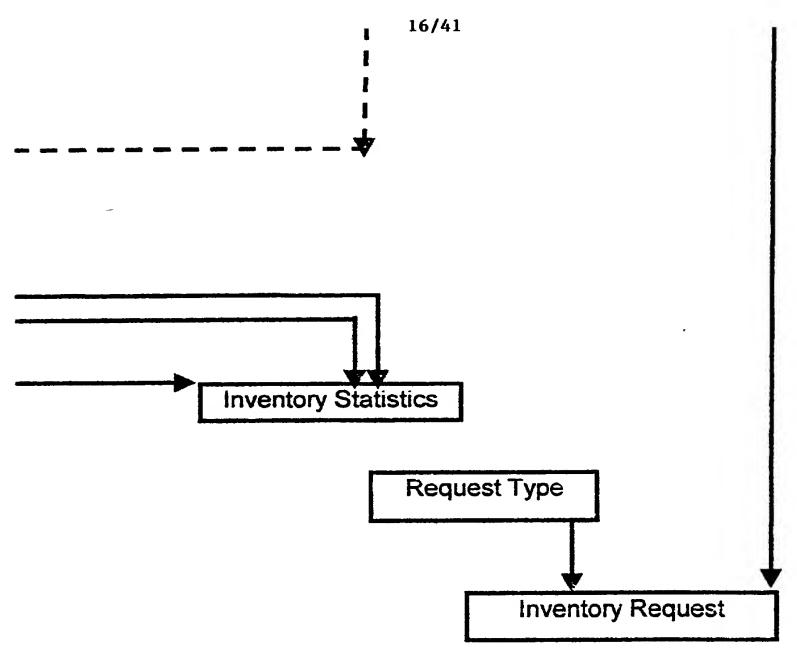


Fig 12E

RECTIFIED SHEET (RULE 91)

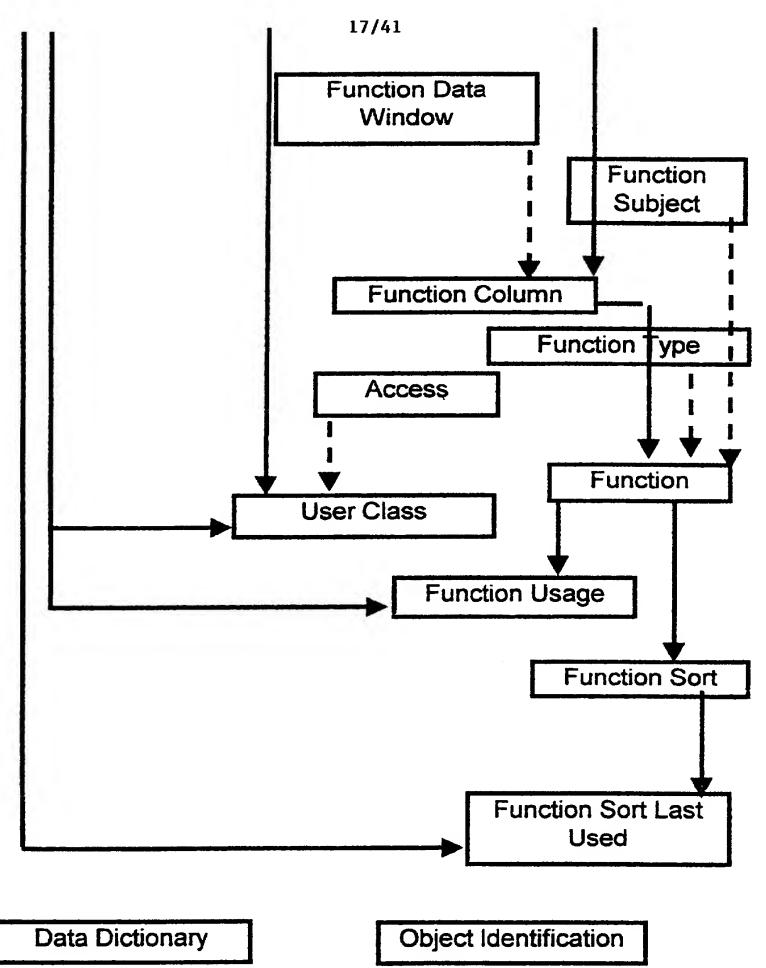


Fig 12F

RECTIFIED SHEET (RULE 91)

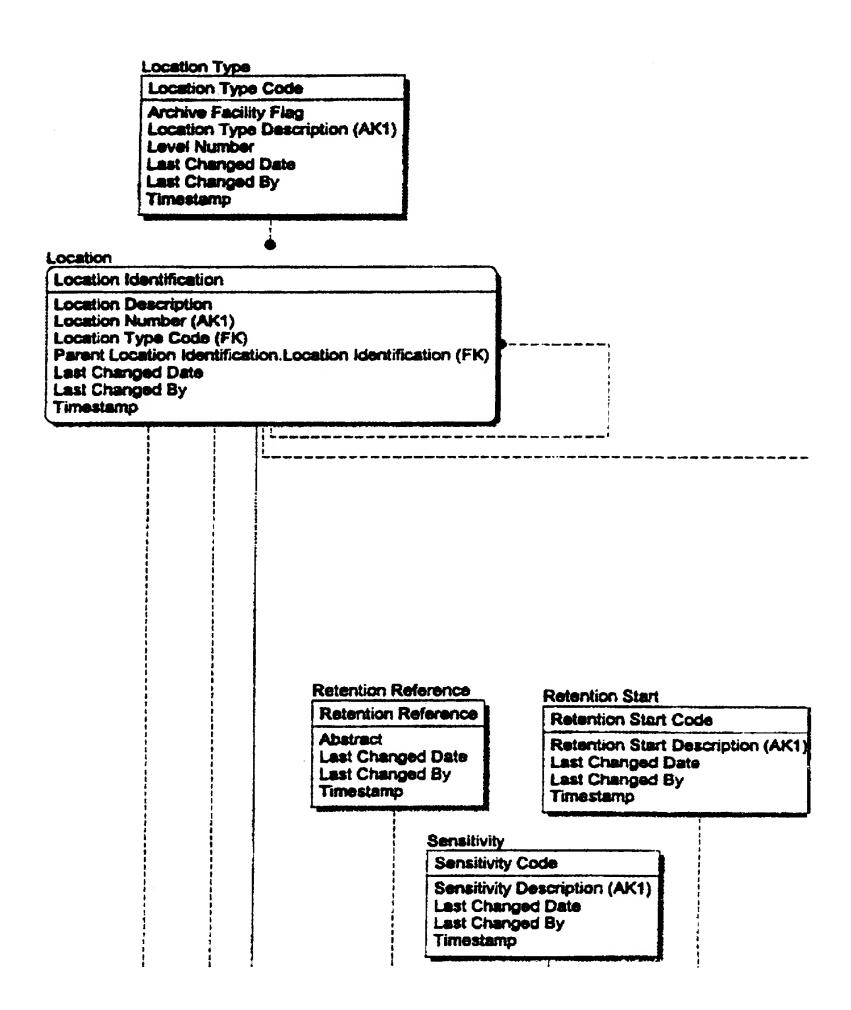


Figure 13 A

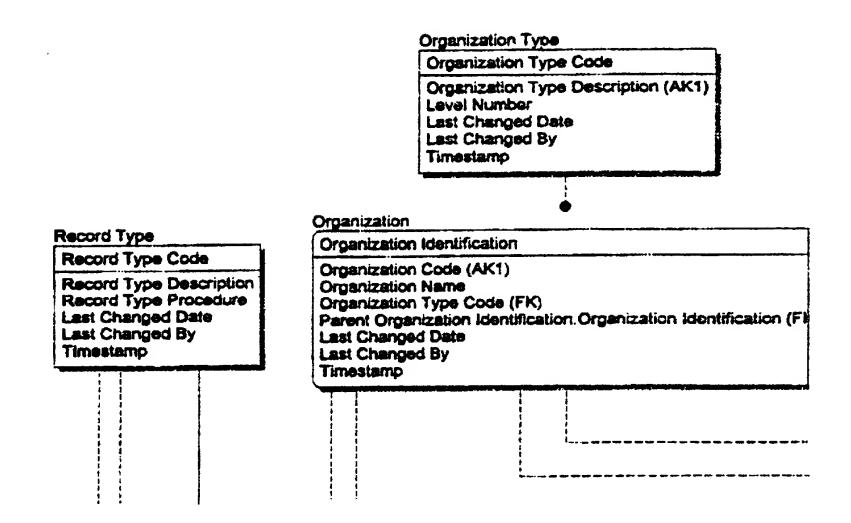


Figure 13 B

20/41

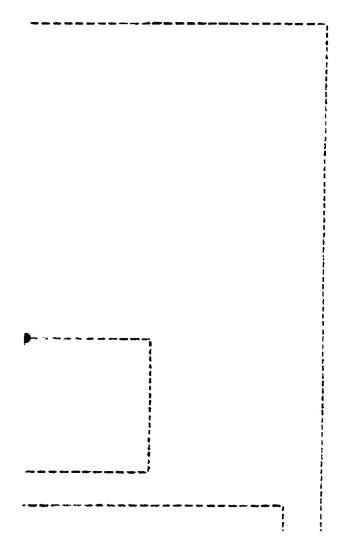


Figure 13 C

PCT/US97/17004

PAGE INTENTIONALLY LEFT BLANK

Figure 13 D

22/41

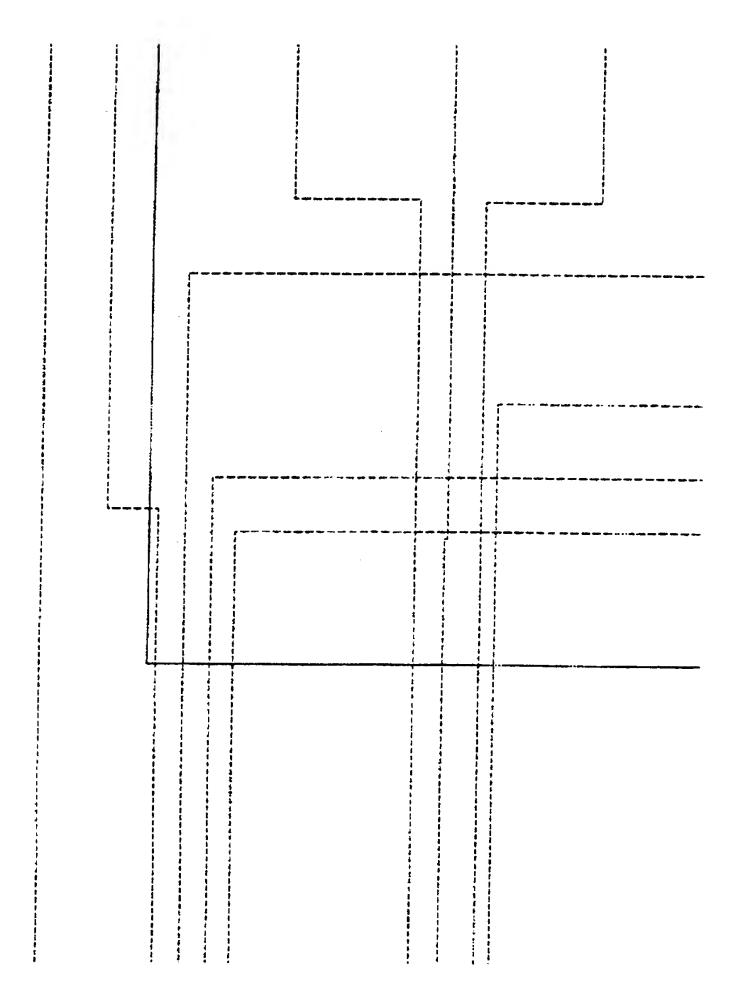


Figure 13 E



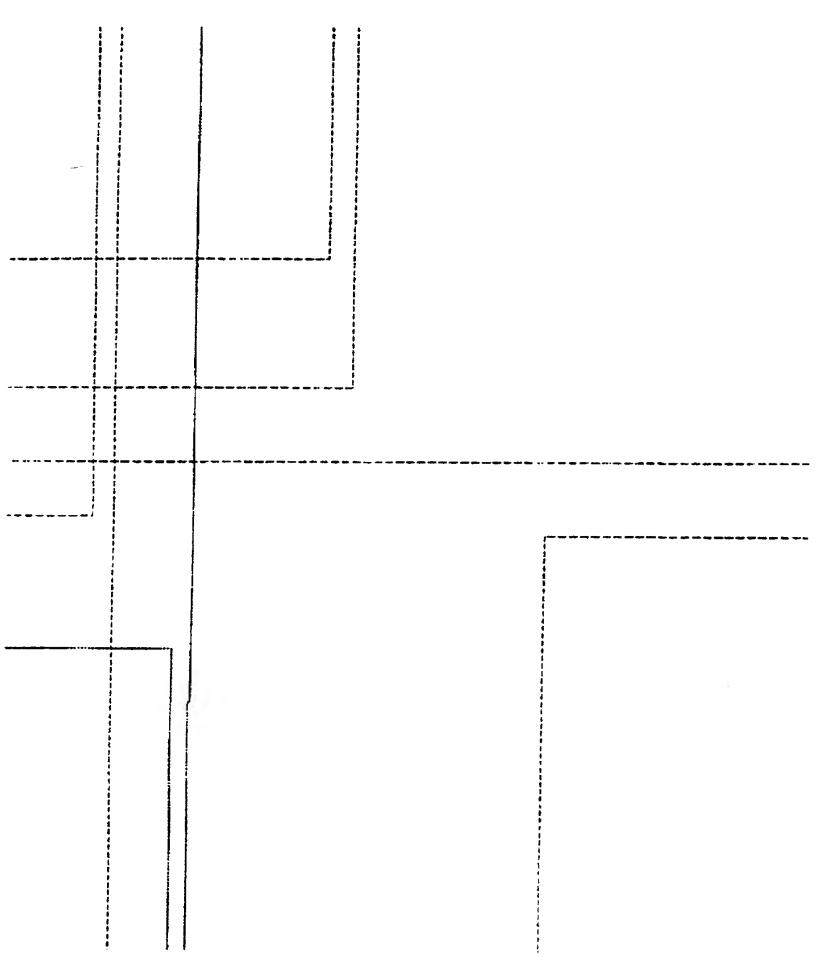


Figure 13 F

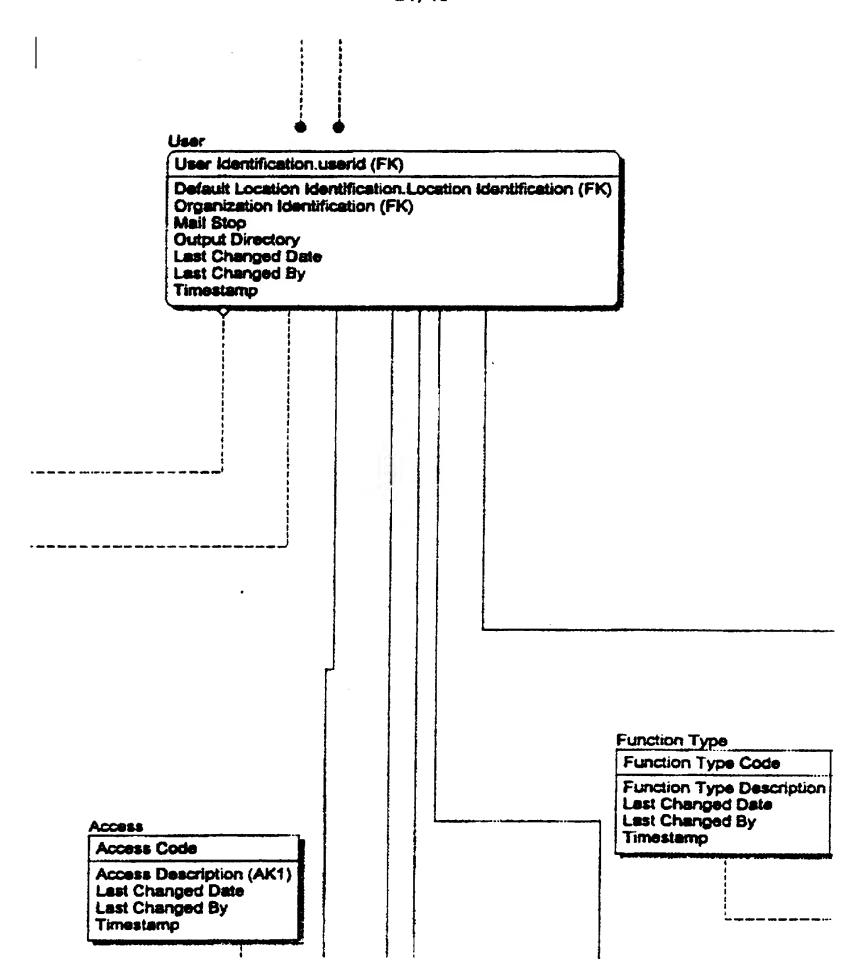


Figure 13 G

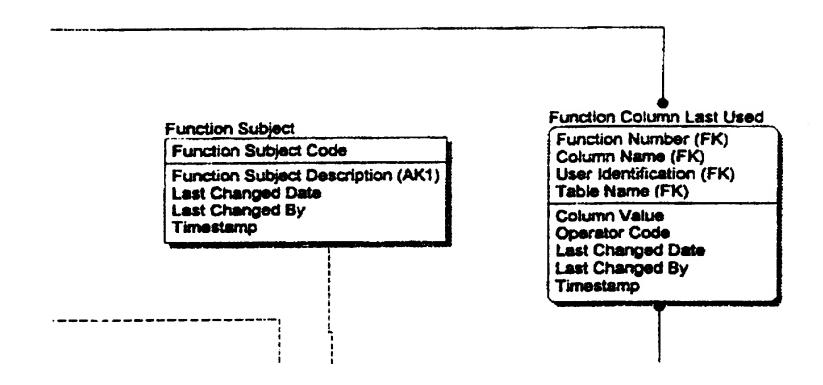


Figure 13 H

PCT/US97/17004 WO 98/12616 26/41 Class Class Identification Abstract Class Code (AK1) Classification Title Classification Title Extended Center Retention Months Organization Identification (FK) Created By Media Type Code (FK) Office Retention Months Parent Class Identification. Class Identification (FK) Record Type Code (FK) Retention Reference (FK) Retention Start Code (FK) Sensitivity Code (FK) Vital Flag **Last Changed Date Last Changed By** Timestamp inventory Inventory Identification Organization Identification (FK) (AK1) Author (IE1) Class Identification (FK) Created By. User Identification (FK) Original File Name Inventory Label Line 1 (AK1) Inventory Label Line 2 (AK1) Inventory Abstract inventory Label Line 3 (AK1) Inventory Identification (FK) Location Identification (FK) Media Type Code (FK) (AK1) Abstract Record Type Code (FK) (AK1) **Center Retention Months** Storage Date (IE3) Office Retention Months Series Code (IE2) Last Changed Date

Figure 13 I

Last Changed By

Timestamp

System Entry Date

Last Changed By

Timestamp

Last Changed Date

27/41

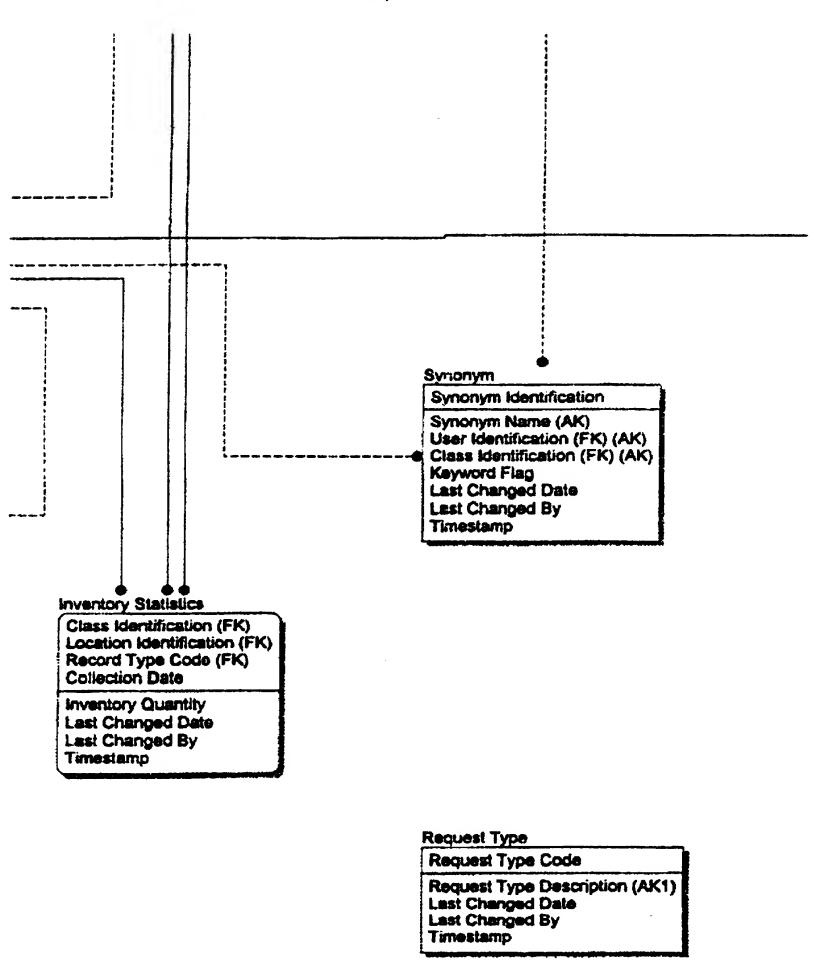


Figure 13 J

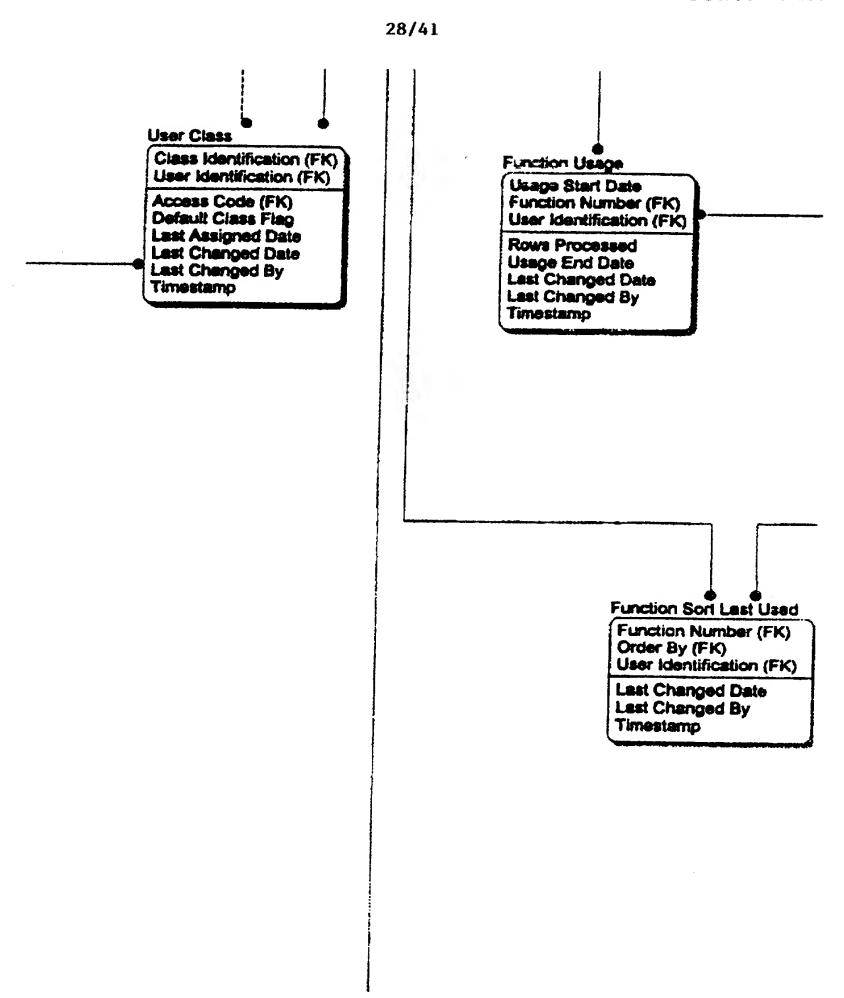


Figure 13 K

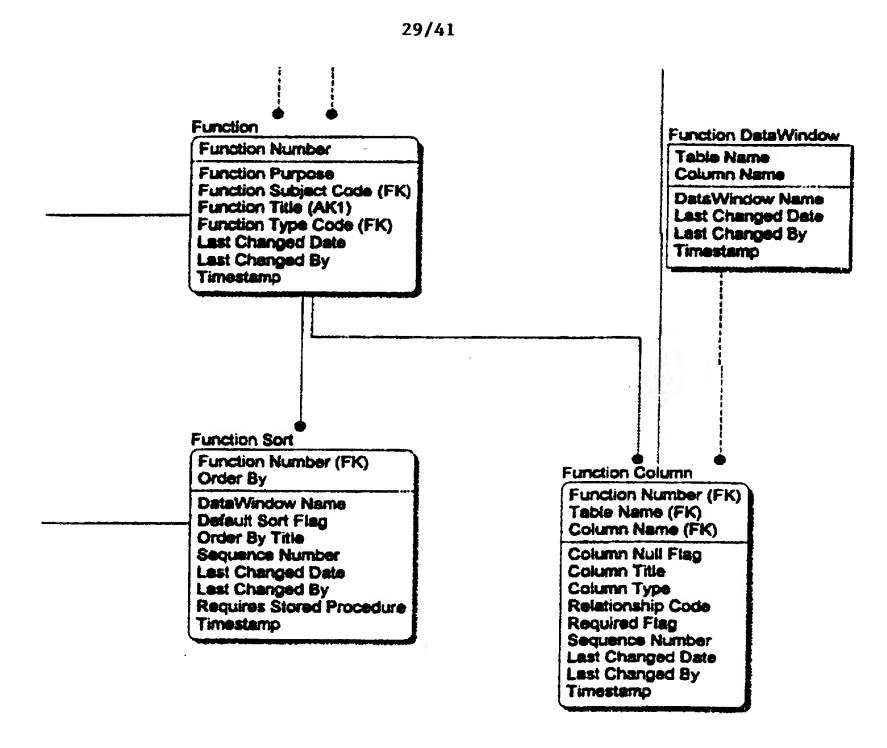


Figure 13 L

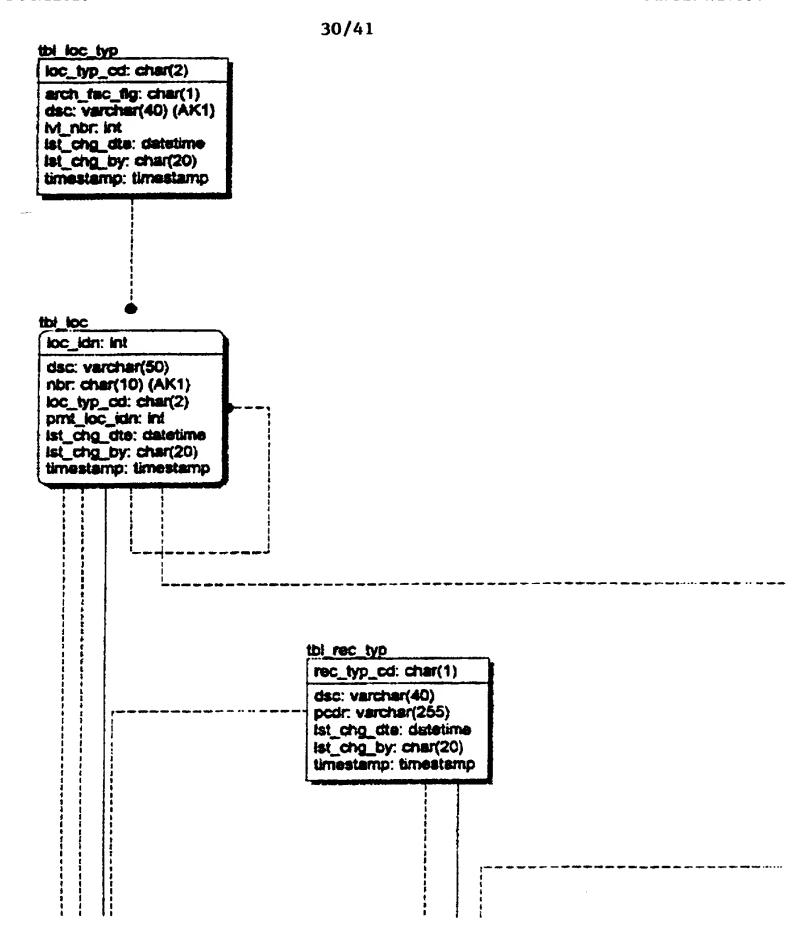


Figure 14 A

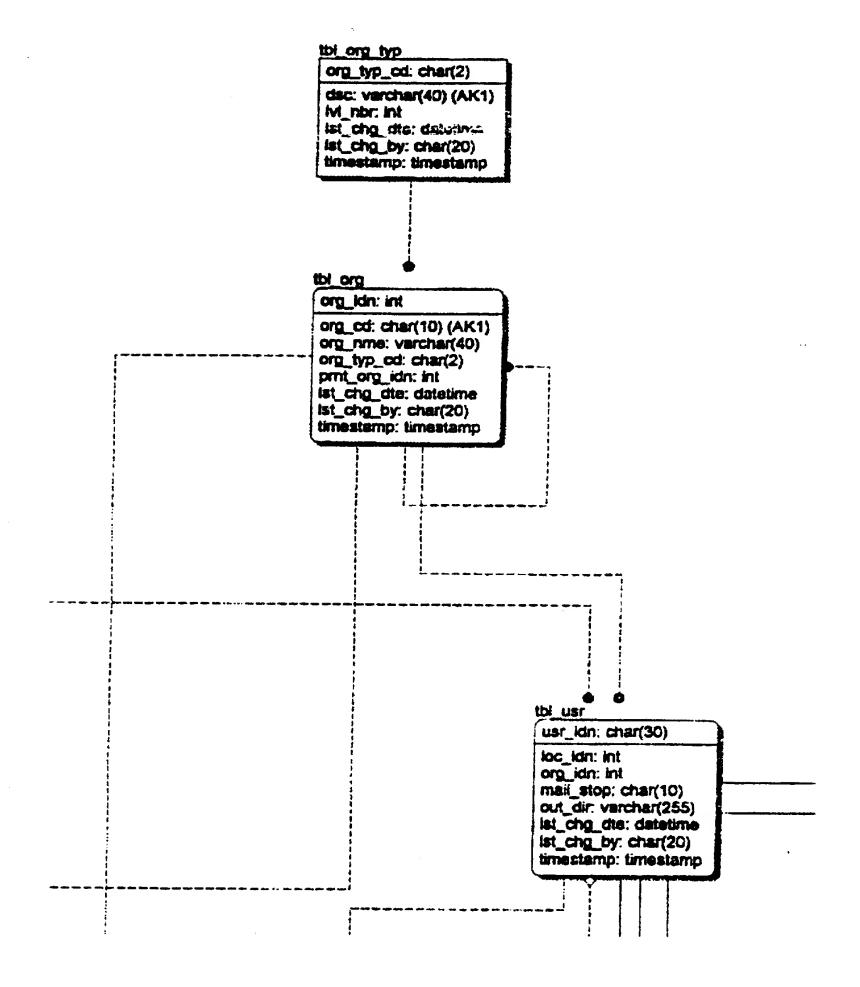


Figure 14 B

WO 98/12616 PCT/US97/17004

32/41

Figure 14 c

ent_nme: varchar(40)
att_nme: varchar(40)
att_nme: varchar(255)
ccl_nme: varchar(255)
ccl_nme: varchar(40)
diyp: char(20)
ent_def: varchar(255)
null_opt: char(20)
udt_nme: char(20)
ist_chg_dte: datetime
ist_chg_by: char(20)
tmestamp: timestamp

tbl_obj_idn
obj_nme: cher(20)
idn: int
ist_chg_dte: datetime
ist_chg_by: cher(20)
timestamp: timestamp
filler_1: cher(255)
filler_2: cher(255)
filler_4: cher(255)
filler_5: cher(255)
filler_5: cher(255)
filler_6: cher(255)
filler_7: cher(255)
filler_8: cher(103)

Figure 14 D

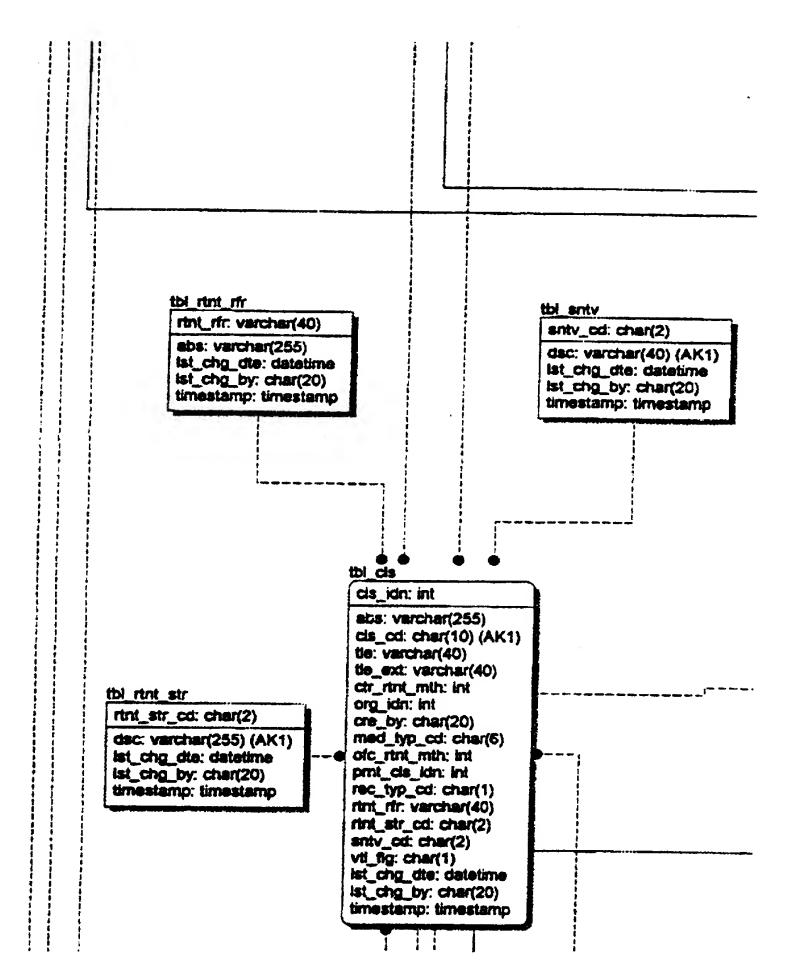


Figure 14 14 E

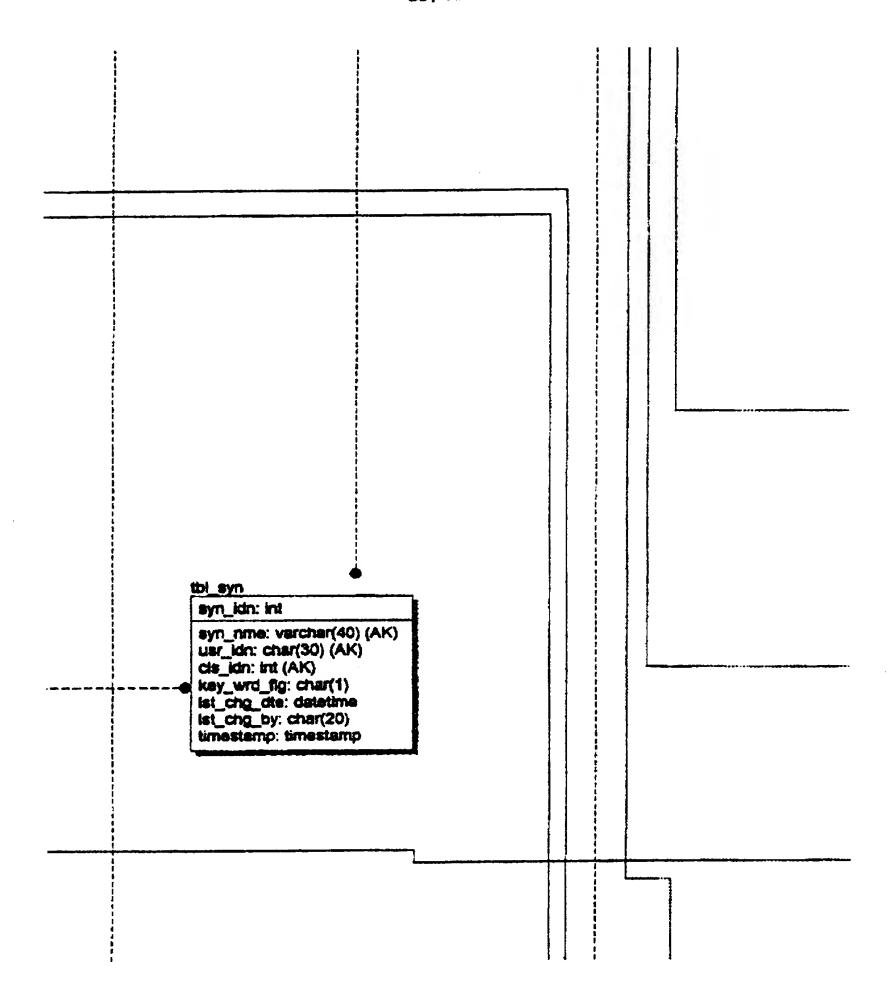


Figure 14 F

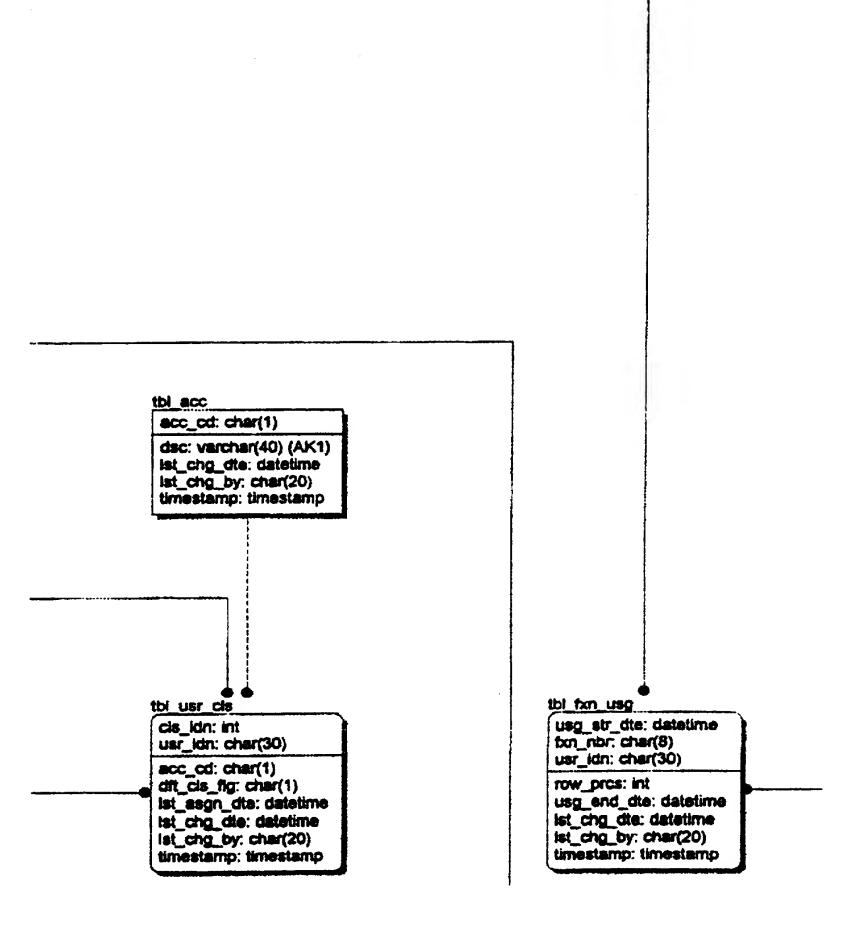


Figure 14 G

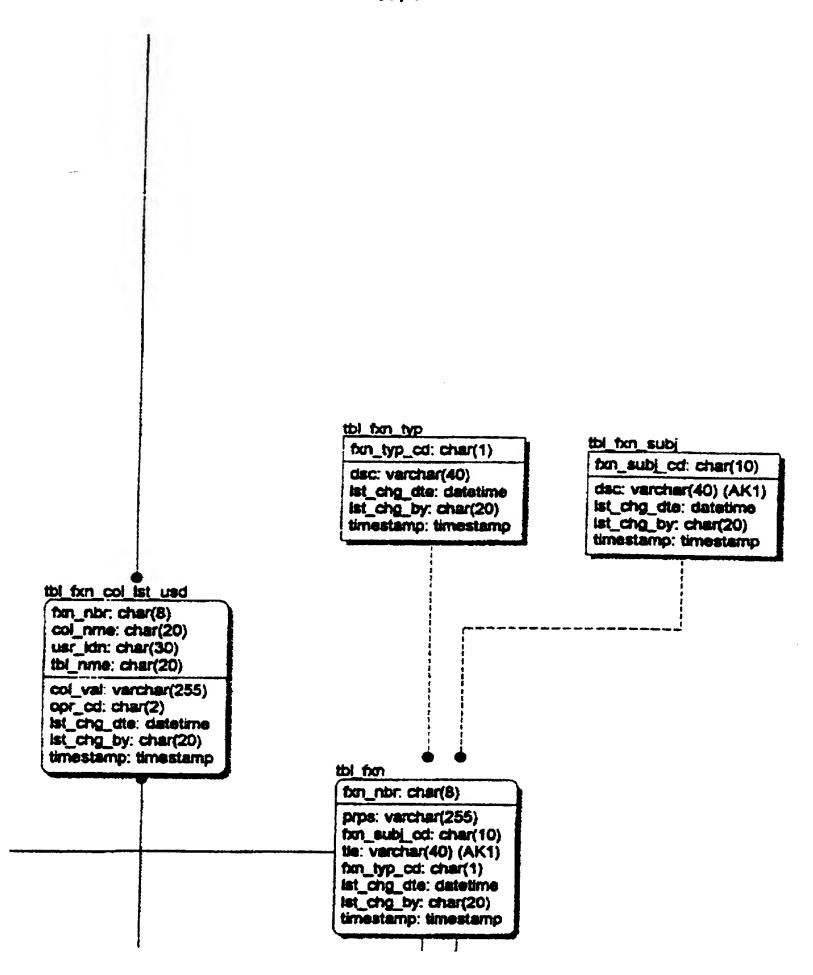


Figure 14 H

WO 98/12616

38/41

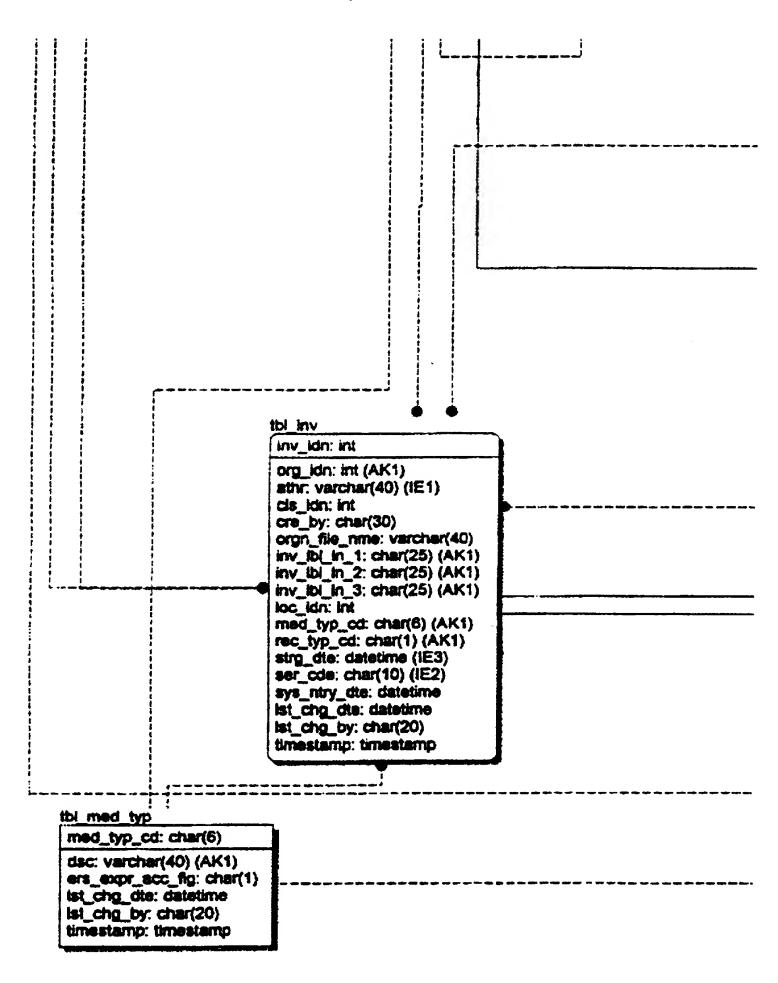


Figure 14 I

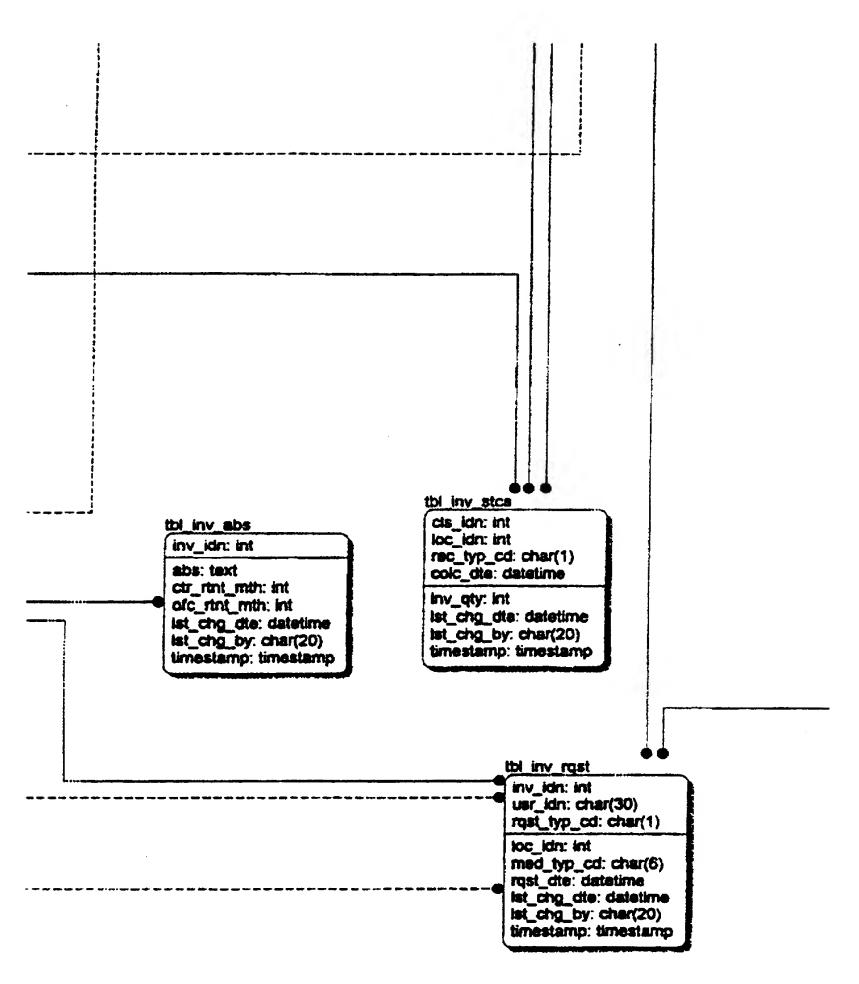


Figure 14 J

ĭ

40/41

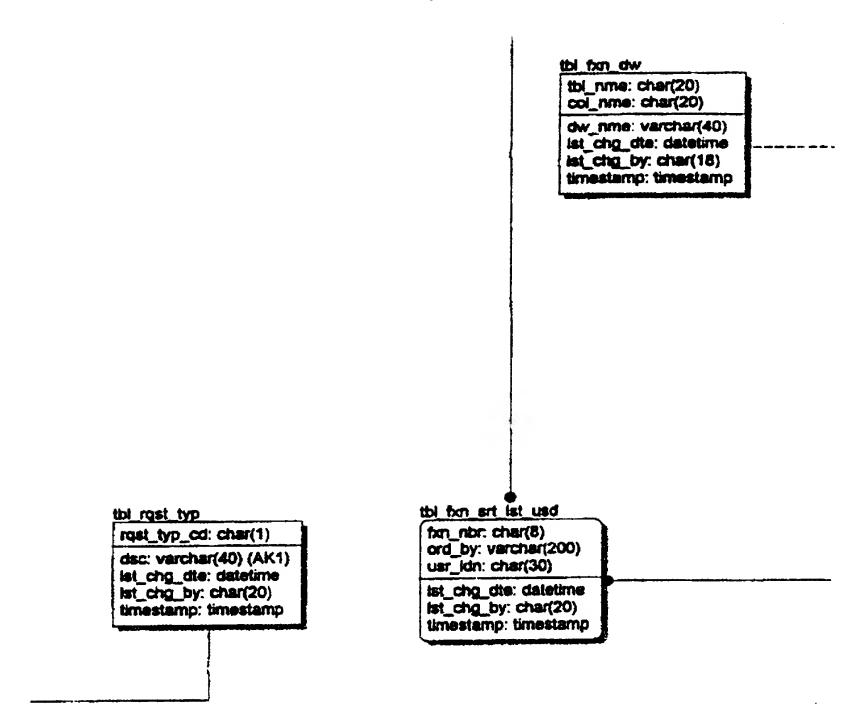


Figure 14 K

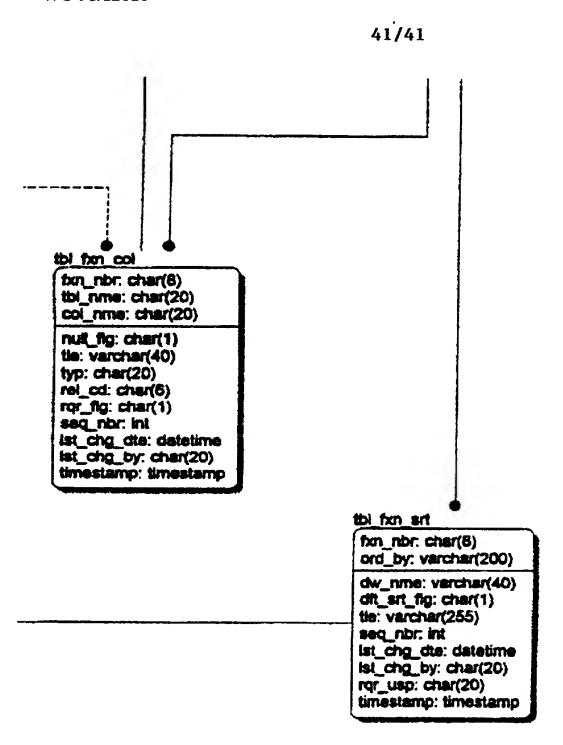


Figure 14 L